



MEERUT INSTITUTE OF ENGINEERING & TECHNOLOGY

(A Unit of City Educational & Social Welfare Society)

Approved by AICTE, PCI New Delhi & Affiliated to Dr. A.P.J. Abdul Kalam Technical University, Uttar Pradesh, Lucknow
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Ref No: MIET/ADM/OCD/2024-25/043

Dated: 27.08.2024

To,

The Dean – UG SE

Dr. APJ Abdul Kalam Technical University

Lucknow

Subject: Curriculum Gap for consideration of respective BOS: 2024-25.

Dear Sir,

Please find attached herewith the documents related to the curriculum gap, communicated by respective HODs (identified through DQAC Meeting) of Meerut Institute of Engineering and Technology, Meerut for kind consideration of respective Board of Studies (BOS): 2024-25 of affiliating university.

Submitted for kind consideration of concerned BOS.

With warm regards


Prof. (Dr.) Sanjay Kr. Singh

Director

Encl: Curriculum Gaps



To,
The Director,
MIET, Meerut

Date: 14.08.2024

Subject: Submission of Report on Curriculum Gaps Reviewed and Approved by DQAC

Respected Sir,

I am writing to inform you that Departmental Quality Assurance Cell (DQAC) has completed its review for the curriculum gaps identified by the concerned faculty members. The DQAC has carefully evaluated the identified gaps and categorized them into semester wise.

The following are the recommendations from the DQAC:

S. No.	Sem	Subject Code	Subject Name	Suggested / Identified Topics (Curriculum Gap) Suggested To be Added in Syllabus	Remarks, if any
1	V	KBT052	Nano-biotechnology	Nano-biotechnology should be a regular subject with Lab.	
2	V	KBT052	Nano-biotechnology	Dynamic Light Scattering (DLS) should be included in the syllabus of Nano-biotechnology.	
3	V	KBT 501	Genetic Engineering	Genetic Engineering (KBT 501) syllabus should be revised as Cell signaling module (Unit 5) is inappropriate in the syllabus. Advanced gene editing tools may be included in Unit 5.	
4	V or VI	KBT 051-058 OR 061-064	Departmental Elective subjects	A Subject on 'Vaccine Technology' may be included in Departmental Elective subjects.	
5	VI	KBT601	Bioprocess Engineering-II	Bioprocess Engineering-II syllabus should be revised as it is already covered in Bioprocess Engg.-I (BBT 401) in 4th semester.	
6		M.Tech	M.Tech Biotechnology	Syllabus of M.Tech Biotechnology may be revised.	
7	I	MTBT011	Immunology & Vaccine Technology	Concepts of mRNA vaccine and formulation of new vaccines and their limitations may be added in the syllabus of MTBT011.	
8	II	MTBT053	Fundamentals of Stem Cell Technology	Concepts of 3D bioprinting and formulation of Bioinks may be added in the syllabus of MTBT053 to make this technical subject more useful.	

We seek your kind consideration and further directives on addressing the gaps identified in the curriculum.

Thank you for your continuous support and guidance in enhancing the academic quality of our programs.

Yours Sincerely,

Head
Department of Biotechnology
Meerut Institute of Engineering & Technology
Meerut - 201005
Dr. Avinash Singh
Head of Department of Biotechnology,
MIET, Meerut

Meerut Institute of Engineering and Technology, Meerut

Dept of BIOTECHNOLOGY # Curriculum Gap : 2024-25

S. No.	Semester	Subject Code	Subject Name	Suggested / Identified Topics (Curriculum Gap) Suggested To be added in Syllabus	Remarks if any
1	V	KBT052	Nanobiotechnology	Nanobiotechnology should be a regular subject with Lab.	
2	V	KBT052	Nanobiotechnology	Dynamic Light Scattering (DLS) should be included in the syllabus of Nanobiotechnology.	
3	V	KBT 501	Genetic Engineering	Genetic Engineering (KBT 501) syllabus should be revised as Cell signaling module (Unit 5) is inappropriate in the syllabus. Advanced gene editing tools may be included in Unit 5	
4		KBT 051-058 OR 061-064	Departmental Elective subjects	A Subject on 'Vaccine Technology' may be included in Departmental Elective subjects.	
5	VI	KBT601	Bioprocess Engineering-II	Bioprocess Engineering-II syllabus should be revised as it is already covered in Bioprocess Engg.-I (BBT 401) in 4th semester	
6		M.TECH	M.Tech Biotechnology	Syllabus of M.Tech Biotechnology may be revised.	
7	I	MTBT011	Immunology & Vaccine Technology	Concepts of mRNA vaccine and formulation of new vaccines and their limitations may be added in the syllabus of MTBT011.	
8	II	MTBT053	Fundamentals of Stem Cell Technology	Concepts of 3D bioprinting and formulation of Biopinks may be added in the syllabus of MTBT053 to make this technical subject more useful.	

Head
 Department of Biotechnology
 Meerut Institute of Engineering & Technology
 Meerut (U.P.) 250005
 (Name and Sign of HOD)
 Dept of Biotechnology

Meerut Institute of Engineering & Technology, Meerut
Department of Biotechnology

Date: 8 July 2024

NOTICE

DQAC meeting is scheduled on Tuesday, **09/07/2024** at 11:00 AM in HoD office.

Agenda:

1. Regarding academic planning for odd semesters session 2024-25.
2. Review of data compilation and validation of odd & even semester 2023-24.
3. Review of various feedback.
4. Regarding budget planning for the session 2024-25.
5. Regarding teaching load of all faculties.
6. Regarding curriculum gap.
7. Regarding OBE Workshop.
8. Issue with the permission of the chair.

The entire concerned are requested to make it convenient to attend the meeting.

Head
Department of Biotechnology
Meerut Institute of Engineering & Technology
Meerut (U.P.) 250005
Dr. Avinash Singh
(HOD-BT)

CC:

1. Dean Academics Office
2. BT Faculty

Meerut Institute of Engineering & Technology, Meerut
Department of Biotechnology

MINUTES OF THE MEETING

The HOD-BT, occupied the chair and welcomed the members. The following business was transacted in the meeting:

Agenda: 1 Regarding academic planning for odd semesters session 2024-25.

Resolution: CCs were asked to complete all the formalities regarding registration of the students. CO statements of all the subjects were reviewed and approved with some suggestion.

Agenda: 2 Review of data compilation and validation of odd & even semester 2023-24.

Resolution: Following data of odd & even semester 2023-24 was reviewed and validated after critical analysis:

- **Course files** for the odd and even semester session 2023-2024 was reviewed by the DQAC members and it was found satisfactory.
- **CO Attainment** of odd semester were approved and even semester attainment was compiled.
- **Sessional Marks** were compiled and validated.
- **Mentor- Mentee records** were reviewed and final year mentee records were submitted.

Agenda: 3 Review of various feedback.

Resolution: DQAC members thoroughly reviewed Graduate exit Survey, Course end Survey and teaching & learning feedbacks. Further, suggestions for the same was discussed based on the feedback analysis.

Agenda: 4 Regarding budget planning for the session 2024-25.

Resolution: DQAC members thoroughly reviewed the budget for session 2024-25. The same was approved.

Agenda: 5 Regarding teaching load of all faculties.

Resolution: Teaching load of all the faculties was approved by the DQAC members.

Agenda: 6 Regarding curriculum gap.

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Resolution: DQAC reviewed and approved the curriculum gaps identified by the concerned faculty. DQAC suggested to fulfill the minor gaps during the lectures. Major gaps were communicated to the IQAC for review.

Agenda: 7 Regarding OBE Workshop.

Resolution: DQAC suggested that each faculty of department must attend one OBE workshop.

Agenda: 8 Issue with the permission of the chair.

Resolution: As there were no issues to discuss, meeting was concluded with vote of thanks to all present.

Members Present in the Meeting:

1. Dr. Avinash Singh
2. Dr. Ashima Kathuria
3. Dr. Gourav Mishra
4. Dr. Neha Singh
5. Dr. Sachin Kumar Tomar

Head
Department of Biotechnology
Meerut Institute of Engineering & Technology
Meerut (U.P.) 250005

Dr. Avinash Singh
(HOD-BT)

Meerut Institute of Engineering & Technology, Meerut
Department of Biotechnology

Identification of Curriculum Gap & Suggestions

B. Tech 3rd Year

- Dynamic Light Scattering (DLS) should be included in the syllabus of Nanobiotechnology (KBT 052).
- Nanobiotechnology should be a regular subject with Lab.
- Genetic Engineering (KBT 501) syllabus should be revised as Cell signaling module (Unit 5) is inappropriate in the syllabus. Advanced gene editing tools may be included.
- Bioprocess Engineering-II syllabus should be revised as it is already covered in Bioprocess Engg.-I in 4th semester.
- A Subject on 'Vaccine Technology' may be included in Departmental Elective subjects.

Some Suggestions for M.Tech Biotechnology Syllabus

- Syllabus of M.Tech Biotechnology may be revised.
- Concepts of 3D bioprinting and formulation of Bioinks may be added in the syllabus of MTBT053 to make this technical subject more useful.
- Concepts of mRNA vaccine and formulation of new vaccines and their limitations may be added in the syllabus of MTBT011.

Members Present in the Meeting:

1. Dr. Avinash Singh
2. Dr. Ashima Kathuria
3. Dr. Gourav Mishra
4. Dr. Neha Singh
5. Dr. Sachin Kumar Tomar

Head
Department of Biotechnology
Meerut Institute of Engineering & Technology,
Meerut (U.P.) 250005

Dr. Avinash Singh
(HOD-BT)

Date: 05-08-2024

To
The Director
MIET Meerut

Subject: Identification of Curriculum Gaps in the University Regulation


Respected Sir,

It is to bring to your kind notice that, there are certain curriculum gaps identified in the AKTU regulation – 2023(B Code) and 2021(K Code) .It is our request to kindly consider the identified gaps in the new regulation and benefit the students in future endeavours.

Below is the list of identified gaps for academic session 2024-25 for your kind perusal:

Department of Information Technology				
S.No	Semester	Subject Code	Subject Name	Suggested / Identified Topics (Curriculum Gap) Suggested To be added in Syllabus
1	3 rd	BCS 302	Computer Organization and Architecture	Hazards and its types affecting pipelining in computer architecture
2	5 th	KCS 503	Design and Analysis of Algorithm	KD tree Algorithms
3	5 th	KIT 501	Web Technology	HTML5 and JQUERY
4	5 th	KCS 501	DBMS	Triggers and Cursors

Thanking You


Dr. Swati Sharma
Head, Department of Information Technology
Meerut Institute of Engineering & Technology, Meerut
Email ID: hodit@miet.ac.in

Meerut Institute of Engineering and Technology, Meerut

Dept of Information Technology # Curriculum Gap : 2024-25

S. No.	Semester	Subject Code	Subject Name	Suggested / Identified Topics (Curriculum Gap) Suggested To be added in Syllabus	Remarks, if any
1	3rd	BCS 302	Computer Organization and Architecture	Hazards and its types affecting pipelining in computer architecture	
2	5th	KCS 503	Design and Analysis of Algorithm	KD tree Algorithms	
3	5th	KIT 501	Web Technology	HTML5 and JQUERY	
4	5th	KCS 501	DBMS	Triggers and Cursors	

(Name and Sign of HOD)


Dept of ...I.T.

(Dr. Jyoti Sharma)

Meerut Institute of Engineering and Technology, Meerut

Department of MCA # Curriculum Gap: 2024-25

S.No.	Semester	Subject Code	Subject Name	Suggested/ Identified Topics(Curriculum Gap) Suggested to be added in Syllabus	Remarks, if any
1	I	KCA105	Computer Organization and Architecture	Advised to add " Introduction to Digital Electronics" as a part of 1st Unit	
2	III	KCA301	Artificial Intelligence	Advised to add Case Study of current AI implementation like (Chat GPT, Google Gemini, LLM)	
3	III	KCA303	Computer Networks	Advised to introduce Computer Networks Lab	


 Dr. Satish Kumar Soni
 HOD, Dept. of MCA

Department of MCA
 Meerut Institute of Engineering and Technology
 NH-59, Bahaud, Meerut, U.P. 221005
 Phone: 0592-250001, 250002



Meerut Institute of Engineering & Technology, Meerut
Department of Electronics and Communication Engineering

Date: 20.08.2024

To,
The Director
MIET, Meerut

Subject: Regarding Curriculum Gaps for Session 2024-25

Respected Sir,

Please find the curriculum gaps for the subjects taught in Department of Electronics & Communication Engineering which have been identified in the DQAC meeting conducted on 20.08.2024.

Thanks and Regards,

A handwritten signature in black ink, appearing to read 'Neha', with the date '20/8/24' written below it.

(Dr. Neha Mittal)
Head, ECE Department

Meerut Institute of Engineering and Technology, Meerut
Dept. of Electronics and Communication Engineering # Curriculum Gap : 2024-25

S. No.	Semester	Subject Code	Subject Name	Suggested / Identified Topics (Curriculum Gap) Suggested to be added in Syllabus	Remarks , if any
1	V1	KEC603	Antenna and Wave Propagation (AWP)	Introduction to Reconfigurable Intelligent Surface (RIS), Transmission Lines and Advanced Antenna Technology (Like Wearable Antennas etc.) for wireless communication in the AWP as it is not covered in University syllabus	
2	VII	KEC 071	Digital Image Processing	Digital Image processing subject is currently running in 7th semester. As this subject is very important for project and research work of Students. This subject should be taught before starting project work. So, this subjects should be incorporated prior to Final year.	
3	NA	NA	Optical Fiber Lab	Optical Communication is an elective subject in third year. There must be a laboratory for same for better understanding of subject and to meet the communication industry requirement	
4	NA	NA	Antenna Simulation Lab	A dedicated lab should be included using Ansys HFSS as it promotes the better understanding of the subject in practical way.	No such Lab exist
5	III	KEC352	Digital System Design Lab	Practicals in DSD lab using digital kits are in University syllabus. It should be implemented with EDA tools like Cadence, Verilog, LTSpice	
6	VII	KOE 073	Machine Learning	Subject is important from the point of the final year project of students. The students start working on their projects at the beginning of the final year. It is, therefore, recommended to incorporate the subject prior to the final year so that they can implement the knowledge gained in their projects.	


 20/8/2024
 (Dr. Subodh Kr. Tripathi)
 Academic Coordinator


 (Dr. Neha mittal)
 Head of Department

Head
 Dept. of Electronics & Communication
 Meerut Institute of Engineering & Technology
 Meerut-250002