

curriculum gaps  
for  
session 2023-24  
communicated to university  
in session 2023-24

— X ————— X —————



Director Miet <director@miet.ac.in>

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## Curriculum Gap for consideration of BOS : 2023-24

1 message

Thu, Aug 10, 2023 at 10:24 AM

Director . <director.068@aktu.ac.in>  
To: "Dean UGSE, AKTU, Lko" <dean.ugse@aktu.ac.in>  
Bcc: director@miet.ac.in


Institute : Meerut Institute of Engg and Technology, Meerut  
Institute Code : 068

Dear Sir

Please find attached herewith the curriculum gap (communicated by respective HODs) for the consideration of respective Board of Studies (BOS) : 2023-24.

With warm regards,  
Dr. Brijesh Singh  
Director  
Meerut Institute of Engg and Tech, Meerut

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 Ltr\_AKTU\_Curriculum\_Gap\_MIET\_09.08.23.pdf  
3310K

  
Prof. (Dr.) Brijesh Singh  
Director  
Meerut Institute of Engineering & Technology  
NH-58, Baghat Road Crossing, Bypass Road,  
Meerut - 250005 (U.P.)



# 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  
NH-58, Baghat Road Crossing, Bypass Road, Meerut - 250 005, U.P. INDIA

Tel. : +91-121 2439019, 2439057, Fax : +91-121 2439058

Website : [www.miet.ac.in](http://www.miet.ac.in)

E-mail : [registrar@miet.ac.in](mailto:registrar@miet.ac.in)

Ref : MIET/2023-24/840

Date : August 09, 2023

To,

The Dean – UG SE

Dr. APJ Abdul Kalam Technical University

Lucknow

**Subject : Curriculum Gap for consideration of respective BOS : 2023-24**

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) : 2023-24 of affiliating university.

Submitted for kind consideration of concerned BOS.

With warm regards,

  
(Dr. Brijesh Singh)

Director

Encl : Curriculum Gaps

  
Prof. (Dr.) Brijesh Singh  
Director  
Meerut Institute of Engineering & Technology  
NH-58, Baghat Road Crossing, Bypass Road,  
Meerut - 250005 (U.P.)

**Department of Information Technology**  
**Academic Curriculum Gap**

SNO	Subject	Subject Code	Gap
1	Computer System Security	KNC301	It does not include "Practical Aspects" of this subject and the practical aspects of this will be greatly helpful for the better understanding of this subject.
2	Computer Organization and Architecture	KCS302	"Linear and Non-Linear pipeline" should be included to strengthen the course.

*Belong to*  
*[Signature]*  
Prof. (Dr.) Brijesh Singh  
Director  
Meerut Institute of Engineering & Technology  
NH-58, Baghat Road Crossing, Bypass Road,  
Meerut - 250005 (U.P.)



*[Signature]*

To  
The Director  
MIET Meerut

Date: 08-08-2023

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 – 2018(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 2022-23 for your kind perusal:

Department of Mechanical Engineering				
S. No.	Semester	Subject Code	Subject Name	Suggested / Identified Topics (Curriculum Gap) Suggested To be added in Syllabus
1	3 <sup>rd</sup>	KME-301	Thermodynamics	Some portions like Psychrometry, and refrigeration which are covered in other subjects may be reduced, and some practical aspects of thermodynamics in process, and other industries may be added.
2	3 <sup>rd</sup>	KME-353	Computer Aided Machine Drawing-I Lab	In the view of enhanced application of CAD software in Industry, more drafting, assembly and solid modeling work should be shifted on software. Still few sheets are to be made manually for strengthening the basic understanding.
3	4 <sup>th</sup>	KME-402	Engineering Mechanics	Some portions which are covered in other subjects like SFD/BMD/Stress-strain may be replaced with some practical aspects of Engineering Mechanics.
4	5 <sup>th</sup>	KME-503	Industrial Engineering	Introduction to some optimization techniques and tools may be added for more detailed study of the subject.
5	5 <sup>th</sup>	KME-051	Computer Integrated Manufacturing	Some portions which are covered in others papers Like MRP-I, MRP-II may be replaced with modern aspects of FMS/14.0/Robotics/Cobotics
6.	5 <sup>th</sup>	KME-502	Strength of Materials	SFD and BMD analysis should be added to the current syllabus
7	5 <sup>th</sup>	KME-052	Mechatronics System	Microcontroller ,Pneumatic and Electro-Pneumatic circuit diagram should be covered
8	4 <sup>th</sup>	KME-401	Applied Thermodynamics	Syllabus is very lengthy. Fuels & Combustion should be covered in only one unit rather than two units. Alternative fuels topic can be added in the combustion chapter.
9	3 <sup>rd</sup>	KME-302	Fluid Mechanics and Fluid machinery	Buoyancy and Flotation topic should be covered, Piezometers and forces on submerged bodies should be added, Fluid machine should be treated as separate subject
10	4 <sup>th</sup>	KME 403	Manufacturing process	Syllabus is very lengthy. Non conventional machining processes must be covered as separate subject.

Thanking you

Head of The Department

Mechanical Engineering Department  
Meerut Institute of Engineering & Technology  
Meerut (U.P.)

  
Prof. (Dr.) Brijesh Singh  
Director  
Meerut Institute of Engineering & Technology  
NH-58, Baghat Road Crossing, Meerut - 250005 (U.P.)

MEERUT INSTITUTE OF ENGINEERING & TECHNOLOGY, MEERUT  
DEPARTMENT OF ELECTRICAL ENGINEERING  
Department Quality Assurance Cell (DQAC)

05<sup>th</sup> -September -2022

MINUTES OF MEETING


Subject: MOM for the meeting on 03/09/22.

Members Present in the meeting:


7. Mr. Avinash Kumar – HOD (EE)
8. Dr. Tanmoy Deb (Professor, EE)
9. Dr. Bhupender Sharma (Project Coordinator, EE)
10. Dr. Anamika Singh (Assistant Professor, EE)
11. Mrs. Shweta Shukla (Assistant Professor, EE)

Following points were discussed in the meeting held on 03/09/22.

- Discussions on curriculum gaps were discussed with all faculties. Gaps finalized in meeting.
- Methodology for CO formation is discussed with new faculties. Updated CO's for newly added subject as per guideline should be submitted before next meeting.
- Guidelines for Questions papers setting is given to all. Also role of class test , assignment and other innovation techniques in their curriculum is explained.

  
05/09/22  
(HOD – EE)

Copy to: - Institute NBA Coordinator (IQAC)  
- Faculty Members (through circulation)

  
Prof. (Dr.) Brijesh Singh  
Director  
Meerut Institute of Engineering & Technology  
NH-58, Buzhosi Road, Meerut - 201302

  
Head  
Department of Electrical Engineering  
Meerut Institute of Engineering & Technology, Meerut - 250005

To  
The Director  
MIET Meerut

Date:07-09-2022

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 – 2018(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 2022-23 for your kind perusal:

Department of Electrical Engineering				
S. No.	Semester	Subject Code	Subject Name	Suggested / Identified Topics (Curriculum Gap) Suggested To be added in Syllabus
1			EHV AC-DC Transmission	This Subject should be considered as mandatory subject in the Curriculum of Electrical Engineering
2			Electrical Engineering Material	This Subject should be considered as a part of curriculum of Electrical Engineering
3			AutoCAD	This training should be added in curriculum as it has its importance in industry also
4	7 <sup>th</sup>		Power System Protection	According to AKTU Curriculum this subject is optional. This Subject should be considered as mandatory subject. Most of student not studied this subject as it is optional.

Thanking You

  
Avimash Kumar

Head, Department of Electrical Engineering  
Meerut Institute of Engineering & Technology, Meerut  
Email ID: [hodelectrical@miet.ac.in](mailto:hodelectrical@miet.ac.in)

  
Head  
Department of Electrical Engineering  
Meerut Institute of Engineering & Technology, Meerut - 250005

  
Brijesh Singh  
Director  
Meerut Institute of Engineering & Technology  
NH-58, Baghat Road Crossing, Bypass Road,  
Meerut - 250005 (U.P.)



HOD Biotechnology &lt;hodbiotech@miet.ac.in&gt;

## Identification of Curriculum Gap & Suggestions

4 messages

HOD Biotechnology &lt;hodbiotech@miet.ac.in&gt;

To: Director Miet &lt;director@miet.ac.in&gt;

Thu, Aug 3, 2023 at 2:54 PM

Respected Sir,

Please find the attached document for Identification of Curriculum Gap &amp; Suggestions.

### Department of Biotechnology, MIET

### Identification of Curriculum Gap & Suggestions

#### B.Tech. 2<sup>nd</sup> Year

- Microbiology and Immunology should be taught as separate subjects instead of Microbiology & Immunology (KBT 302). \_

#### B.Tech. 3<sup>rd</sup> Year

- Dynamic Light Scattering (DLS) should be included in the syllabus of Nanobiotechnology (KBT 052).
- Practical lab of Nanobiotechnology should be the part of regular syllabus.
- Cell signaling module (Unit-5) is inappropriate in the syllabus of Genetic Engineering (KBT 501). Gene Editing tools could be a replacement for the same.
- Animal Biotechnology (KBT 061) should be included as a regular subject.

#### B.Tech. 4<sup>th</sup> Year

- Bioseparation and Downstream Processing (KBT 072) should be a regular subject instead of Elective subject.
- Solid waste management should be included in the syllabus of Environmental Biotechnology (KBT 073).

#### Open Elective for Final Year

- Intellectual Property Rights (IPR) could be included in an open elective choice for final year students.

#### M.Tech Biotechnology

- Syllabus of M.Tech Biotechnology can be considered for revision.

#### DQAC Members

Dr. Ashima Kathuria

Singh

Dr. Gourav Mishra

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

Dr. Avinash

(HoD-BT)



Dr. Sachin Kumar Tomar  
Dr. Neha Singh

**Dr. Avinash Singh**

**Associate Professor & Head**

Department of Biotechnology

Meerut Institute of Engineering and Technology (MIET)

*Affiliation: Dr. A.P.J. Abdul Kalam Technical University - AKTU, Lucknow (U.P.)*

N.H. 58 | Delhi-Roorkee Highway | Baghpat Road Bypass Crossing |

Meerut – 250005 | Uttar Pradesh | India

Mobile: +91-9650325579

 **Department of Biotechnology, MIET.pdf**  
233K

**HOD Biotechnology** <hodbiotech@miet.ac.in>

To: Ashima Kathuria <ashima.kathuria@miet.ac.in>, Neha Singh <neha.singh@miet.ac.in>

Thu, Aug 3, 2023 at 2:55 PM

**Dr. Avinash Singh**

**Associate Professor & Head**

Department of Biotechnology

Meerut Institute of Engineering and Technology (MIET)

*Affiliation: Dr. A.P.J. Abdul Kalam Technical University - AKTU, Lucknow (U.P.)*

N.H. 58 | Delhi-Roorkee Highway | Baghpat Road Bypass Crossing |

Meerut – 250005 | Uttar Pradesh | India

Mobile: +91-9650325579

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 **Department of Biotechnology, MIET.pdf**  
233K



**HOD Biotechnology** <hodbiotech@miet.ac.in>

To: HOD Chemical <hodchemical@miet.ac.in>

Tue, Aug 8, 2023 at 1:49 PM

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

**Dr. Avinash Singh**

## Department of Biotechnology, MIET

### Identification of Curriculum Gap & Suggestions

#### B.Tech. 2<sup>nd</sup> Year

- Microbiology and Immunology should be taught as separate subjects instead of Microbiology & Immunology (KBT 302).

#### B.Tech. 3<sup>rd</sup> Year

- Dynamic Light Scattering (DLS) should be included in the syllabus of Nanobiotechnology (KBT 052).
- Practical lab of Nanobiotechnology should be the part of regular syllabus.
- Cell signaling module (Unit-5) is inappropriate in the syllabus of Genetic Engineering (KBT 501). Gene Editing tools could be a replacement for the same.
- Animal Biotechnology (KBT 061) should be included as a regular subject.

#### B.Tech. 4<sup>th</sup> Year

- Bioseparation and Downstream Processing (KBT 072) should be a regular subject instead of Elective subject.
- Solid waste management should be included in the syllabus of Environmental Biotechnology (KBT 073).

#### Open Elective for Final Year

- Intellectual Property Rights (IPR) could be included in an open elective choice for final year students.

#### M.Tech Biotechnology

- Syllabus of M.Tech Biotechnology can be considered for revision.

#### DQAC Members

Dr. Ashima Kathuria

Dr. Gourav Mishra

Dr. Sachin Kumar Tomar

Dr. Neha Singh



**Dr. Avinash Singh**

(HoD-BT)

Head

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

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



## Department of Biotechnology, MIET

### Identification of Curriculum Gap & Suggestions

#### B.Tech. 2<sup>nd</sup> Year

- Microbiology and Immunology should be taught as separate subjects instead of Microbiology & Immunology (KBT 302).

#### B.Tech. 3<sup>rd</sup> Year

- Dynamic Light Scattering (DLS) should be included in the syllabus of Nanobiotechnology (KBT 052).
- Practical lab of Nanobiotechnology should be the part of regular syllabus.
- Cell signaling module (Unit-5) is inappropriate in the syllabus of Genetic Engineering (KBT 501). Gene Editing tools could be a replacement for the same.
- Animal Biotechnology (KBT 061) should be included as a regular subject.

#### B.Tech. 4<sup>th</sup> Year

- Bioseparation and Downstream Processing (KBT 072) should be a regular subject instead of Elective subject.
- Solid waste management should be included in the syllabus of Environmental Biotechnology (KBT 073).

#### Open Elective for Final Year

- Intellectual Property Rights (IPR) could be included in an open elective choice for final year students.

#### M.Tech Biotechnology

- Syllabus of M.Tech Biotechnology can be considered for revision.

#### DQAC Members

Dr. Ashima Kathuria

Dr. Gourav Mishra

Dr. Sachin Kumar Tomar

Dr. Neha Singh



**Dr. Avinash Singh**

(HoD-BT)

Head

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

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





Director Miet &lt;director@miet.ac.in&gt;

## Delivery of "Content Beyond Syllabus" contents

2 messages

Director Miet &lt;director@miet.ac.in&gt;

Thu, Nov 30, 2023 at 4:52 PM

To: Head of Departments &lt;hod@miet.ac.in&gt;

Cc: IQAC MIET &lt;team.iqac@miet.ac.in&gt;, Centre Superintendent MIET &lt;centre.superintendent@miet.ac.in&gt;, Dean CS &amp; IT &lt;dean.csit@miet.ac.in&gt;, Dean Academics &lt;deanacademics@miet.ac.in&gt;, Dean Students Welfare &lt;dsw@miet.ac.in&gt;, Puneet Agarwal &lt;puneet@miet.ac.in&gt;

Dear Colleagues

Please pay sincere and timely attention for the following :

### A. List of Identified contents related to "Content beyond Syllabus"

Based on identified curriculum gap (identified based on CO-PO/PSO Mapping; CO-PO/PSO Attainment; Observations and Feedback; Comparing syllabus with esteemed / research institutes / competitive examinations etc.; need of industry; future prosperous / research areas etc.), few contents were identified at department level (through DQAC). These may be few topics related to courses as prescribed by AKTU and few extra lab experiments / labs / theory courses / additional topics. These identified contents are to be delivered to the students for their academic improvement / skill enhancement / making them more employable / entrepreneurship.

### B. Delivery of Identified contents related to "Content beyond Syllabus"

1. The topics related to courses of curriculum - are to be taught along with the course.
2. Lab related contents / experiments / projects are to be covered / conducted during the semester concerned.
3. Further, for concerned topics / skill set etc. => Guest Lectures, Industry-supported expert talk, industrial visit and internship, projects, FDPs, Seminars, Workshops, Online Courses of MOOCs / SWAYAM / NPTEL etc., Virtual Labs, IOPs etc. can also be conducted during the semester.

In this respect, please provide the following by Dec 06, 2023 :

1. List of contents related to Content beyond syllabus with method of identification and mode to accomplish its delivery
2. Delivery Details

You can also email the contents / study material / link of resources etc. (pertaining to content beyond syllabus) to all the concerned students.

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With Regards,  
Dr. Brijesh Singh  
Director  
Meerut Institute of Engg and Tech, Meerut

Thu, Nov 30, 2023 at 4:53 PM

Director Miet &lt;director@miet.ac.in&gt;

To: Head of Departments &lt;hod@miet.ac.in&gt;

Cc: IQAC MIET &lt;team.iqac@miet.ac.in&gt;, Centre Superintendent MIET &lt;centre.superintendent@miet.ac.in&gt;, Dean CS &amp; IT &lt;dean.csit@miet.ac.in&gt;, Dean Academics &lt;deanacademics@miet.ac.in&gt;, Dean Students Welfare &lt;dsw@miet.ac.in&gt;, Puneet Agarwal &lt;puneet@miet.ac.in&gt;

Dear Colleagues

This is applicable for 2023-24 and 2022-23.

[Quoted text hidden]

  
Prof. (Dr.) Brijesh Singh  
Director  
Meerut Institute of Engineering & Technology  
NH-58, Baghat Road Crossing, Bypass Road,  
Meerut - 250005 (U.P.)