

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, Baghpat Road Crossing, Bypass Road, Meerut - 250 005, U.P. INDIA

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Dated: 27.08.2024

Ref No: MIET/ADM/OCD/2024-25/043

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, Date: 14.08.2024

The Director, MIET, Meerut

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 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	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	КВТ601	Bioprocess Engineering-II	Bioprocess Engineering-II syllabus should be revised as it is already covered in Bioprocess EnggI (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 Inetitute of Biotechnology

Dr. Avinash Singh Month 20005 Head of Department of Biotechnology,

MIET, Meerut

			Meerut Instit	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
_	<	KBT052	Nanobiotechnology	Nanobiotechnology should be a regular subject with Lab.
2	<	КВТ052	Nanobiotechnology	Dynamic Light Scattering (DLS) should be included in the syllabus of Nanobiotechnology.
ω	<	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 ⊤echnology' may be included in Departmental Elective subjects.
5	≤	KBT601	Bioprocess Engineering-II	Bioprocess Engineering-II sylabus should be revised as it is already covered in Bioprocess EnggI (BBT 401) in 4th semester.
თ		M.TECH	M.Tech Biotechnology	Syllabus of M. Tech Biotechnology may be revised.
7	_	MTBT011	Immunology & Vaccine Technology	Concepts of mRNA vaccine and formulation of new vaccines and their limitations may be added in the syllabus of MTBT011.
œ	=	МТВТ053	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.
				Department of Sciolechaelegy Neart Institute of Estimatory
				(Name and Sign of HOD) Dept 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.

Department of Distochnology

Meerut Institute of Engineering & Technology

Meerut (U.P.) 250005

Dr. Avinash Singh (HOD-BT)

CC:

- 1. Dean Academics Office
- 2. BT Faculty

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.

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

Department of Rightechnology

Meerut Institute of Engineering & Technology

Meerut (U.P.) 250005

Dr. Avinash Singh (HOD-BT)

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 eerut Institute ev Engineering & Technolog

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:

	<u> </u>		Department	of Information Technology
S.No	Semeste r	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

<u>Dept of Information Technology # Curriculum Gap : 2024-25</u>

S. No.	Semester	Subject Code	Subject Name	Suggested / Identified Topics (Curriculum Gap) Suggested To be added in Syllabus	Remarks, if any
1 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	
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			Department of MCA #	Department of MCA # Curriculum Gap: 2024-25	
S.No.	Semester	Semester Subject Code	Subject Name	Suggested/ Identified Topics(Curriculum Gap) Suggested to be added in Syllabus	Remarks, If any
-	-	KCA105	Computer Organization and Architecture	Advised to add " Introduction to Digital Electronics" as a part of 1st Unit	
2	≡	KCA301	Artificial Intelligence	Advised to add Case Study of current Al implementation like (Chat GPT, Google Gemini, LLM)	
ω	=	КСА303	Computer Networks	Advised to introduce Computer Networks Lab	

Dr. Satish Kumar Son 100 1004

HoD, Dept. PfeMCA

Department of MCA

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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,

(Dr. Neha Mittal)

Head, ECE Department

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

S. No.	Semester	Subject Code	Subject Name	Suggested / Identified Topics (Curriculum Gap) Suggested to be added in Syllabus	Remarks, if any
	IN	KEC603	Antenna and Wave Propogation (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	
п	IIA	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.	
m	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.
vo	Ш	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	
9	пл	KOE 073	Machine Leaming	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.	
	(Dr. Subódi Academic	(Dr. Subodh Kr. Tripathi) Academid Coordinator		(Dr. Néha mittal) Head of Department	

Deptt. of Electronics & Communication
Meerut Institute of Engineering & Technology
Meerut-250002