



MINUTES OF THE MEETING OF THE BOARD OF STUDIES

FOR B.E CSE, B.E CSE (AI & ML), B.E (CS), BCA (Hons.), M.Tech (CSE) & MCA

MEETING No.: 3

DATE: 09 September 2023 TIME: 2:30 PM

The meeting was chaired by Prof. Ankur Gupta, Director MIET and was held in an online mode. At the outset Prof. Gupta welcomed all the members of the Board of Studies for B.E CSE, B.E CSE (AI & ML), B.E (CS), BCA (Hons.), M.Tech (CSE) & MCA. The agenda items along with their narration and relevant annexures were circulated to the members on 05th September 2023 over email and were subsequently transacted.

Members present in the meeting:

1.	Prof. Ankur Gupta <i>Director, MIET</i>	Chairperson
2.	Dr. Manoj Kumar Gupta <i>Associate Professor & Head of Department, CSE, SMVDU</i>	Expert Member
3.	Dr. Vinit Jakhetiya <i>Assistant Professor, CSE, IIT Jammu</i>	Expert Member
4.	Mr. Rajesh Nambiar <i>Director, Ui-path</i>	Industry Member
5.	Prof. Ashok Kumar <i>Dean Academic Affairs, MIET</i>	Special Invitee
6.	Dr. Mekhla Sharma <i>Assistant Professor, CSE, MIET</i>	Member
7.	Dr. Surbhi Gupta <i>Assistant Professor, CSE, MIET</i>	Member
8.	Mr. Anil Gupta <i>Assistant Professor, CSE, MIET</i>	Member
9.	Ms. Shafalika Vijayal <i>Assistant Professor, CSE, MIET</i>	Member
10.	Mr. Saurabh Sharma <i>Assistant Professor, CSE, MIET</i>	Member
11.	Ms. Veena Tripathi <i>Assistant Professor, CSE, MIET</i>	Member
12.	Mr. Navin Mani Upadhyay <i>Assistant Professor, CSE, MIET</i>	Member
13.	Ms. Azra Ashraf <i>Assistant Professor, CSE, MIET</i>	Member
14.	Ms. Sheetal Mahajan <i>Assistant Professor, CSE, MIET</i>	Member



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15.	Ms. Vani Malagar <i>Assistant Professor, CSE, MIET</i>	Member
16.	Ms. Vishalika <i>Assistant Professor, CSE, MIET</i>	Member
17.	Ms. Monia Digra <i>Assistant Professor, CSE, MIET</i>	Member
18.	Ms. Preeti Rajput <i>Assistant Professor, CSE, MIET</i>	Member
19.	Ms. Arti Kotru <i>Associate Professor, MCA, MIET</i>	Member
20.	Mr. Vishal Gupta <i>Associate Professor, MCA, MIET</i>	Member

Note: Prof. Vinod Sharma, Department of Computer Science & IT, University of Jammu and Mr. Avinash Verma, Senior Business Analyst, Edifecs could not attend the meeting due to some other commitments.

- 1. To confirm the minutes of the 2nd meeting of the Board of Studies held on 1st September 2022.**

Resolved that the minutes of the 2nd meeting of the Board of Studies held on 1st September 2022 and circulated to all members on 5th September 2023, be confirmed.

- 2. To report on the start of new program B.E CSE (Cyber Security) from the current session 2023-24 with intake of 60 seats as per the approval received from AICTE.**

The members were briefed about the start of new program B.E CSE (Cyber Security) from the current session 2023-24 with intake of 60 seats as per the approval received from AICTE.

- 3. To formulate the curriculum/syllabi for 7th & 8th semesters of the B.E CSE program for 2020-24 batch and beyond.**

Resolved that the syllabi of the 7th & 8th semesters of the B.E CSE program for 2020-24 batch and beyond be endorsed to the Academic Council for its approval. The members appreciated the following aspects of the proposed curriculum:



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- Provision for the students to choose from two different academic paths as part of Scheme 1 and Scheme 2 during their 7th and 8th semesters of study.
- Introduction of professional electives to enable students to delve into specific areas of expertise or subjects that align with their professional aspirations.
- Embracing Indian Knowledge Systems through Non-Credit Courses in alignment with guidelines of University Grants Commission.
- Introduction of semester-long industry internship in the 7th and 8th semester as part of the Scheme 2.
- Introduction of semester/year-long startup scheme to provide credit to students who engage in meaningful entrepreneurial pursuits leading to establishing a startup venture as part of the scheme 2.

The semester wise course scheme along with percentage of curriculum changed in those courses is give below in Table 1 and Table 2:

Semester - 7 (Scheme-1)

S. No.	Course Code	Course Name	Course Type	Cd	L	T	P	Total Marks	%age change in the Syllabus
1	COM-704	Professional Industrial Training/ Internship	Summer Internship	4	0	0	0	150	100%

Note: Students are required to complete the professional industrial training / Internship during summer semester breaks

S. No.	Course Code	Course Name	Course Type	Cd	L	T	P	Marks			%age change in the Syllabus
								Sessional	Final Exam	Total	
1	COM-701	Professional Elective 1	PEC	3	2	1	0	50	100	150	100%
2	COM-702	Professional Elective 2	PEC	3	2	1	0	50	100	150	100%
3	COM-703	Professional Elective 3* (SWAYAM/NPTEL MOOC/any other Platform)	MCC*	3	0	0	0	-	100	100	100%
4	OEC-701	Open Elective	OEC	3	3	0	0	50	100	150	100%
5	COM-705	Seminar	PEC	2	0	0	4	-	100	100	100%
6	COM-711	Minor Project	PROJ	3	0	0	6	100	150	250	100%



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7	NCC-701	Essence of Indian Knowledge and Tradition	NCC	0	0	0	2	Satisfactory/ Not Satisfactory	S/NS*		
Total				21*	21					1050*	

***Note:** Summer Internship Credits/Marks are also added in this semester's marks sheet.

Under Scheme 1: The students must opt for two Professional Electives & one open elective course out of the given Professional/Open elective courses. One of the Professional Elective courses must be a MOOC selected from the list of MOOCs mentioned in the MOOCs list published by the department.

Semester - 7 (Scheme-2)

S. No.	Course Code	Course Name	Course Type	Cd	L	T	P	Marks			%age change in the Syllabus
								Mid Semester	Final	Total	
1	PII-701	Industry Internship-I	Professional Industry Internship	15	0	0	30	350	500	850	100%
2	COM-703	Professional Elective 3* (SWAYAM/NPTEL MOOC/any other Platform)	MCC*	3	0	0	0	-	100	100	100%
3	COM-706	Professional Elective 4* (SWAYAM/NPTEL MOOC/any other platform)	MCC*	3	0	0	0	-	100	100	100%
Total				21*	30					1050*	

Table 1: Course Scheme of 7th Semester CSE Department

Under Scheme 2: Professional Elective 3*/Professional Elective 4* courses must be a MOOC selected from the list of MOOCs mentioned in the MOOCs list.

Note: The Department will publish a list of MOOCs available on SWAYAM/NPTEL/ any other platform before the commencement of the next semester

Semester - 8 (Scheme-1)

S. No.	Course Code	Course Name	Course Type	Cd	L	T	P	Marks			%age change in the Syllabus
								Sessional	Final Exam	Total	
1	COM-801	Professional Elective 1	PEC	3	2	1	0	50	100	150	100%
2	COM-802	Professional	PEC	3	2	1	0	50	100	150	100%



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		Elective 2									
3	COM-803	Professional Elective 3* (SWAYAM/NPTEL MOOC/Any Other Platform)	MCC*	3	0	0	0	-	100	100	100%
4	COM-811	Major Project	PROJ	6	0	0	12	200	300	500	100%
Total				15	18					900	

*Note: One of the Professional Elective courses must be a MOOC selected from the list of MOOCs mentioned in the MOOCs list.

Department to publish list of available MOOCs on SWAYAM/NPTEL/Any Other platform before the Commencement of the next semester.

Scheme-2

S. No.	Course Code	Course Name	Course Type	C d	L	T	P	Marks			%age change in the Syllabus
								Internal	External	Total	
1	PII-801	Industry Internship-II	Professional Industry Internship	15	0	0	30	600	100%	900	100%
Total				15	30					900	

Table 2: Course Scheme of 8th Semester CSE Department

Annexure 1: Open Electives Course List

S. No.	Semester	Course Code	Course Name
1	7	OEC-701	(A) Strategic Management
2			(B) Marketing Management
3			(C) Managerial Economics

Annexure 2: Professional Elective Courses List

S. No.	Semester	Course Code	Course Name
1	7	COM-701	(A) Cloud Computing and Services
2			(B) High Performance Computing
3			(C) Soft Computing
4		COM-702	(A) Object-Oriented Analysis and Design
5			(B) Software Testing and Automation
6			(C) Applied Data Science
7	8	COM-801	(A) Advanced Machine Learning



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8			(B) Generative AI
9			(C) Knowledge Representation and Reasoning
10		COM-802	(A) UAVs and Drone Technology
11			(B) Smart City Technologies
12			(C) Foundations of Internet of things and Industry 4.0

4. To formulate the curriculum/syllabi for 3rd and 4th semesters of the B.E CSE (Artificial Intelligence and Machine Learning) for 2022-26 batch and beyond.

Resolved that the syllabi of the 3rd & 4th semesters of the B.E CSE (Artificial Intelligence and Machine Learning) for 2022-26 batch and beyond be endorsed to the Academic Council for its approval. The members appreciated the following aspects of the proposed curriculum:

- Introduction of Python Programming and Introduction to Probability and Statistics in the 3rd semester.
- Introduction of Database Systems, accompanied by its lab, as well as Modern Computer Architecture in the 4th semester.
- The Summer Internships are introduced at the end of 2nd and 4th semesters in addition to the existing internship at the end of the 6th semester. This is done in accordance with recent AICTE Internship policy.
- Integration of Courses focused on preparing students for placements within the curriculum.
- Introduction of Specialization Courses in Cloud Computing, Cyber Security, IoT and Data Science from 3rd semester onwards till 6th semester. Students would be required to complete 4 courses of 5 credits each from the MOOC platform.
- Integration of industry relevant courses such as RPA, Cloud Computing, Computer Vision and Computer Networks with syllabus from Ui-Path, Amazon Web Services, NVIDIA and CISCO respectively within the curriculum.

The semester wise course scheme along with percentage of curriculum changed in those courses is give below in Table 3 and Table 4:



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S. No.	Course Code	Course Name	Course Type	Cd	L	T	P	Total Marks	%age change in the Syllabus
1	COM-304	Professional Industrial Training / Internship	Summer Internship	3	0	0	0	100	100%

Note: Students are required to complete the professional industrial training / internship during summer semester breaks.

Semester 3

S. No.	Course Code	Course Name	Course Type	Cd	L	T	P	Marks			%age change in the Syllabus
								Sessional	Final Exam	Total	
1	COM-301	Design and Analysis of Algorithms	PCC	5	4	1	0	50	100	150	100%
2	COM-302	Operating Systems	PCC	4	3	1	0	50	100	150	100%
3	COM-303	Python Programming	PCC	4	3	1	0	50	100	150	100%
4	BSC-301	Introduction to Probability and Statistics	BSC	3	2	1	0	50	100	150	100%
5	HSMC-301	Principles of Management	HSMC	2	2	0	0	50	100	150	100%
6	COM-311	Python Programming Lab	PCC	2	0	0	4	50	-	50	100%
7	COM-312	Operating Systems Lab	PCC	2	0	0	4	50	-	50	100%
8	HSMC-312	Placement overview and Career Planning	HSMC	1	0	0	2	50	-	50	100%
9	MNC-XX X	MOOC*	NCC	0	0	0	0	-	-	S/NS*	
Total				26*	28					1000*	

***Note:** MOOCs List is to be prepared by the department level committee.

S=Satisfactory, NS=Not Satisfactory

Summer Internship Credits/Marks are also added in this semester's marksheet.

Specialization Courses

Course Code	Specialisation Track	Course Type	Cd	L	T	P	Marks			%age change in the Syllabus
							Mid-Se mester	End-Se mester	Total	
MDC-CS/CC /IoT/ DS-301	Cyber Security IoT Data Science Cloud Computing	MOOC	5	5	0	0	25	125	150	100%

Table 3: Course Scheme of 3rd Semester CSE (AI&ML) Program

***Note:** Students can enrol in only one course from chosen Specialization Course. Total Marks is 150 for any one of the chosen courses in the Specialization Course.



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Semester 4

S. No.	Course Code	Course Name	Course Type	Cd	L	T	P	Marks			%age change in the Syllabus
								Sessional	Final Exam	Total	
1	COM-401	Modern Computer Architecture	PCC	4	3	1	0	50	100	150	100%
2	COM-402	Database System	PCC	4	3	1	0	50	100	150	100%
3	COM-403	Object oriented programming using Java	PCC	4	3	1	0	50	100	150	100%
4	BSC-401	Discrete Mathematics	BSC	4	3	1	0	50	100	150	100%
5	COM-411	Object Oriented Programming using Java Lab	PCC	2	0	0	4	50	-	50	100%
6	COM-412	Database System Lab	PCC	2	0	0	4	50	-	50	100%
7	HSMC-412	Corporate Etiquette and Personality Development	HSMC	1	0	0	2	50	-	50	100%
Total				21	26					750	

Specialization Courses:

Course Code	Specialisation Track	Course Type	Cd	L	T	P	Marks			%age change in the Syllabus
							Mid-Semester	End-Semester	Total	
MDC-AI/CS/CC/IoT/DS-401	Cyber Security IoT Data Science Cloud Computing	MOOC	5	5	0	0	25	125	150	100%

Table 4: Course Scheme of 4th Semester CSE (AI&ML) Program

***Note:** Students can enrol in only one course from chosen Specialization Course. Total Marks is 150 for any one of the chosen courses in the specialization Course.

5. To recommend changes in the existing curriculum of 1st and 2nd semester - CSE, CSE (AI & ML).



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The committee members were apprised about the changes recommended in the existing curriculum of 1st and 2nd semester - CSE, CSE (AI & ML). These changes were made in response to feedback from both students and faculty, aiming to streamline the operational aspects of the timetable and course delivery. The following changes were recommended to Academic Council for approval:

- The discontinuation of the Design Thinking Lab (one Credit Course) has been proposed in the curriculum of 1st semester. This decision stems from the curriculum's focus on embedding practical skills within the theory courses.
- The Indian Constitution course has been upgraded from a non-credit course to a one-credit course.
- The 1-credit Technical Communication Lab in the second semester is proposed to be withdrawn. Instead, the credit previously allocated to the lab will be integrated into the Technical Communication course, resulting in an enhancement to its credit value from 3 credits to 4 credits.

6. To formulate the curriculum/syllabi for 1st and 2nd semesters of the B.E CSE (Cyber Security) for 2023-27 batch and beyond.

Discussed the matter and it was resolved that the same curriculum of 1st and 2nd semesters of the B.E CSE program as already approved by the Academic Council be recommended for adoption in B.E CSE (Cyber Security) program.

7. To formulate the curriculum/syllabi for 1st and 2nd semesters of the BCA (Hons.) for 2023-27 batch and beyond.

Resolved that the syllabi of the 1st and 2nd semesters of the BCA (Hons.) for 2023-27 batch and beyond be endorsed to the Academic Council for its approval. The members appreciated the following aspects of the proposed curriculum:

1. A major course on Programming in C, along with its corresponding lab, has been introduced in the first semester.
2. Data Structures with C, along with its lab component, have been introduced as a major course in the second semester.



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3. Web Technologies, including its lab, and Robotic Process Automation will be offered in the first and second semesters, respectively.
4. Business Mathematics will be available as a Non-Credit course for students from medical and arts backgrounds, while a community project has been introduced for students from non-medical backgrounds during the 1st semester.
5. Value-added courses, including Indian Constitution, Sports and Fitness, Universal Human Values, and Indian Knowledge System, have been introduced in the first and second semesters.
6. Business Environment & Sustainability and Principles of Management have been introduced as multi-Disciplinary courses in the first and second semesters, respectively.
7. Foundations of IT and Office Productivity Tools have been introduced as Skill Enhancement courses in 1st and 2nd semester respectively.
8. Introduction of minors in AI and ML, Cloud Computing, Cyber Security, Data Science, and IoT.
9. Introduction of Business Communication and Corporate Etiquette & Personality Development as Ability Enhancement courses in the first and second semesters, respectively.

The semester wise course scheme along with percentage of curriculum changed in those courses is give below in Table 5 and Table 6:

Semester-I

S. No	Course Code	Course name	Course Type	C d	L	T	P	Marks			%age change in the Syllabus
								Mid Semester	End Semester	Total	
1	BCAMJ-101	Programming in C	Major	4	4	0	0	40	60	100	100%
2	UGMDC-102	Business Environment and Sustainability	Multidisciplinary	3	3	0	0	40	60	100	100%
3	UGAEC-103	Business Communication	Ability Enhancement	3	3	0	0	40	60	100	100%
4	UGSEC	Foundations of IT	Skill	2	4	0	0	50	-	50	100%



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	-104		Enhancement								
5	UGVAC -105	Indian Constitution	Value Added course	2	2	0	0	50	-	50	100%
6	UGVAC -106	Sports and Fitness	Value Added course	2	1	0	0	50	-	50	100%
7	BCAMI -107	Web Technologies	Minor	4	4	0	0	40	60	100	100%
8	UGNCC -108(A)	Business Mathematics & Statistics (Non-Math Students)	NCC		4	0	0	-	-	S/NS *	
	UGNCC -108(B)	Community project									
9.	BCAMJ -109	C Programming Lab	Major	2	0	0	4	50	-	50	100%
10.	BCAMI -110	Web Technologies Lab	Minor	2	0	0	4	50	-	50	100%
Total				2 4	25	0	8	410	240	650	

Table 5: Course Scheme of 1st Semester BCA (Hons.) Program

Semester-II

S. No	Course Code	Course name	Course Type	C d	L	T	P	Marks			%age change in the Syllabu s
								Mid Semeste r	End Semeste r	Tota l	
1	BCAMJ -201	Data Structure Using C	Major	4	4	0	0	40	60	100	100%
2	UGMD C-202	Principles of Management	Multidisci plinary	3	3	0	0	40	60	100	100%
3	UGAEC -203	Corporate Etiquette and Personality Development	Ability Enhancem ent	3	3	0	0	40	60	100	100%
4	UGSEC -204	Office Productivity Tools	Skill Enhancem ent	2	0	0	4	50	-	50	100%



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5	UGVAC-205	Universal Human Values	Value Added course	2	2	0	0	50	-	50	100%
6	UGVAC-206	Indian Knowledge System	Value Added course	2	1	0	0	50	-	50	100%
7	BCAMJ-207	Data Structure Lab	Major	2	0	0	4	50	-	50	100%
8.	BCAMI-208	Robotic Process Automation	Minor	4	0	0	4	100	-	100	100%
Total				22	13	0	12	420	180	600	

Table 6: Course Scheme of 2nd Semester BCA (Hons.) Program

Table Item:

- To introduce specializations in the MCA Program in the curriculum during the 3rd and 4th semesters from 2022-24 batch onwards**

Resolved that the specializations in AI & ML, Cloud Computing, Data Science, IoT and Cyber Security be introduced in the curriculum during the 3rd and 4th semesters. The students would be required to complete two courses of 5 credits within one of these specializations from a MOOC platform. The course code along with the scheme is given below in Table 7:

Specialization Course:

Course Code	Specialisation Track	Course Type	Cd	L	T	P	Marks			%age change in the Syllabus
							Mid-Se mester	End-Se mester	Total	
SPC-AI/CS/C C/IoT/ DS	Artificial Intelligence and Machine Learning Cyber Security IoT Data Science Cloud Computing	MOOC	5	5	0	0	40	60	100	100%

Table 7: Course Scheme of 3rd & 4th semesters MCA Program



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***Note:** Students can enrol in only one course from chosen specialization. Total Marks are 100 for any one of the chosen courses in the Specialization course.

The meeting concluded with a vote of thanks.

Prof. Ankur Gupta
Director, MIET

Copy to:

- Esteemed members of the BoS.
- AR, MIET for putting up the recommendations of the BoS to the Academic Council.
- Office Copy.