



**MODEL INSTITUTE OF ENGINEERING & TECHNOLOGY (AUTONOMOUS)**  
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**MINUTES OF THE MEETING OF THE BOARD OF STUDIES**

**For B.Tech CSE, B.Tech CSE (AI & ML), B.Tech CSE (CS), M.Tech (CSE)**

**MCA & BCA (Hons.)**

**MEETING No.: 4**

**DATE: 14<sup>th</sup> August 2024 TIME: 3:00 PM**

The meeting was chaired by Prof. Ankur Gupta, Director, MIET and was held in an online mode. At the outset Prof. Gupta extended a warm welcome to all the new members of the Board of Studies. The agenda items, along with their descriptions and relevant annexures, were shared with the members on 11<sup>th</sup> August 2024 through email and were subsequently discussed.

**Members present in the meeting:**

1.	<b>Prof. Ankur Gupta</b> <i>Director, MIET</i>
2.	<b>Prof. Vibhakar Mansotra</b> <i>Professor &amp; Head, Department of Computer Science &amp; IT, University of Jammu</i>
3.	<b>Dr. Manoj Kumar Gupta</b> <i>Associate Professor, School of Computer Science &amp; Engineering Shri Mata Vaishno Devi University of Jammu, Katra</i>
4.	<b>Dr. Vinit Jakhetya</b> <i>Associate Professor, Computer Science &amp; Engineering, IIT Jammu</i>
5.	<b>Prof. Ashok Kumar</b> <i>Dean Academic Affairs, MIET</i>
6.	<b>Prof. Devanand</b> <i>Professor, Computer Science &amp; Engineering, MIET</i>
7.	<b>Prof. Sahil Sawhney</b> <i>Professor, School of Management, MIET</i>
8.	<b>Mr. Navin Mani Upadhyay</b> <i>Assistant Professor and Head, CSE Department, MIET</i>
9.	<b>Mr. Vishal Gupta</b> <i>Associate Professor and Head, MCA Department, MIET</i>
10.	<b>All Faculty Members</b> <i>CSE and MCA Department, MIET</i>

*Note: Mr. Rajesh Nambiar, Former Director, Ui-path and Mr. Avinash Verma, Senior Business Analyst, Edifecs could not attend the meeting due to some other commitments.*

- 1. To formally welcome all the members of the newly reconstituted Board of Studies for the B.Tech CSE, B.Tech CSE (AI & ML), B.Tech CSE (CS), M.Tech (CSE), MCA & BCA (Hons.)**



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Prof. Gupta, Director, MIET welcomed the new members of the Board of Studies for the B.Tech CSE, B.Tech CSE (AI & ML), B.Tech CSE (CS), M.Tech (CSE), MCA & BCA (Hons.), MIET constituted for the triennial period 2024-2027.

**2. To confirm the minutes of the 3<sup>rd</sup> meeting of the Board of Studies held on 9<sup>th</sup> September 2023.**

Resolved that the minutes of the 3<sup>rd</sup> meeting of the Board of Studies held on 9<sup>th</sup> September 2023 and circulated to the esteemed members on 27<sup>th</sup> September 2023, be confirmed.

**3. To formulate the curriculum/syllabi for the 5<sup>th</sup> and 6<sup>th</sup> semesters of the B.Tech CSE (AI & ML) for 2022-26 batch and beyond.**

Resolved that the syllabi of the 5<sup>th</sup> and 6<sup>th</sup> semesters of the B.Tech CSE (AI & ML) for 2022-26 batch and beyond be endorsed to the Academic Council for its approval. The highlights of the curriculum of 5<sup>th</sup> and 6<sup>th</sup> semester are given below:

5 <sup>th</sup> Semester	6 <sup>th</sup> Semester
<ul style="list-style-type: none"><li>• 3 core courses and 2 Labs have been introduced (Introduction to Data Science, Computer Networks, Theory of Computation, Introduction to Data Science Lab, Computer Networks Lab).</li><li>• A 3-credit Core Elective Course which shall be delivered through the SWAYAM/NPTEL platform has been introduced.</li><li>• A 2-credit Seminar has also been introduced.</li><li>• The curriculum includes an audit course focused on placement preparation (Placement Preparation-I).</li><li>• Professional Industrial Training/Internship is introduced at the end of the 4th semester.</li></ul>	<ul style="list-style-type: none"><li>• 4 core courses and 2 labs have been introduced (Cloud Computing, Computer Vision with AI, Software Engineering, Compiler Design, Cloud Computing Lab, Computer Vision with AI Lab)</li><li>• A 2-credit Open Elective Course, which shall be delivered through the SWAYAM/NPTEL platform, has also been introduced</li><li>• The curriculum also includes an audit course focused on placement preparation (Placement Preparation-II)</li></ul>



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The semester wise course scheme along with percentage of curriculum change is given below in Table 1 and Table 2:

Course Code	Course Name	Course Type	Cd	Marks			%age of Syllabus Change
				Sessional	Final Exam	Total	
COM-501	Introduction to Data Science	PCC	4	50	100	150	100%
COM-502	Computer Networks	PCC	4	50	100	150	100%
COM-503	Theory of Computation	PCC	4	50	100	150	100%
COM-505	Professional Industrial Training/ Internship	Summer Internship	3	-	100	100	100%
COM-504	Core Elective*	PEC	3	50	100	150	100%
COM-506	Seminar	PCC	2	-	100	100	100%
COM-511	Introduction to Data Science Lab	PCC	2	50	-	50	100%
COM-512	Computer Networks Lab	PCC	2	50	-	50	100%
NCC-501	Placement Preparation-I	NCC	0	Satisfactory / Not Satisfactory		S/NS**	100%
<b>Total</b>			<b>24*</b>			<b>900*</b>	

Table 1: 5<sup>th</sup> Semester B.Tech CSE (AI&ML) Batch 2022-26 and Beyond

Course Code	Course Name	Course Type	Cd	Marks			%age of Syllabus Change
				Sessional	Final Exam	Total	
COM-601	Cloud Computing	PCC	4	50	100	150	100%
COM-602	Computer Vision with AI	PCC	4	50	100	150	100%
COM-603	Software Engineering	PCC	3	50	100	150	100%
COM-604	Compiler Design	PCC	4	50	100	150	100%
OEC-601	Open Elective*	OEC	2	-	50	50	100%
COM-611	Cloud Computing Lab	PCC	2	50	-	50	100%
COM-612	Computer Vision with AI Lab	PCC	2	50	-	50	100%
NCC- 601	Placement Preparation-II	NCC	0	Satisfactory / Not Satisfactory		S/NS**	100%
<b>Total</b>			<b>21*</b>			<b>750</b>	

Table 2: 6<sup>th</sup> Semester B.Tech CSE (AI&ML) Batch 2022-26 and Beyond

The detailed curriculum for 5<sup>th</sup> and 6<sup>th</sup> semester is attached as **Annexure I**.

- To formulate the curriculum/syllabi for the 3<sup>rd</sup> and 4<sup>th</sup> semesters of the B.Tech CSE (Cyber Security) for 2023-27 batch and beyond.**



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Resolved that the syllabi of the 3<sup>rd</sup> and 4<sup>th</sup> semesters of the B.Tech CSE (Cyber Security) for 2023-27 batch and beyond be endorsed to the Academic Council for its approval. The highlights of the curriculum of 3<sup>rd</sup> and 4<sup>th</sup> semesters are given below:

3 <sup>rd</sup> Semester	4 <sup>th</sup> Semester
<ul style="list-style-type: none"> <li>• 3 Core Courses and 2 Labs have been introduced (Computer Organization and Architecture, Operating Systems, Foundations of Cyber Security, Introduction to Probability and Statistics, Principles of Management, Cyber Security Foundation Lab, Operating Systems Lab)</li> <li>• A 2-credit Core Elective Course, which shall be delivered through SWAYAM/NPTEL, has also been added.</li> <li>• The Professional Industrial Training/Internship has been introduced at the end of the 2nd semester</li> <li>• The curriculum also includes an audit course on placement preparation (Placement Overview and Career Planning) in the 3rd semester.</li> <li>• Specialization courses have been introduced from the 3rd semester onwards until the 6th semester, requiring students to complete 4 courses of 5 credits each from the MOOC platform.</li> </ul>	<ul style="list-style-type: none"> <li>• Core courses and Labs (Design and Analysis of Algorithms, Relational Database Management System, Foundations of Cryptography, Discrete Mathematics, Database Systems Lab, Network Security Foundation Lab)</li> <li>• A 2-credit Open Elective Course, which shall be delivered through SWAYAM/NPTEL, has also been added.</li> <li>• The curriculum also includes an audit course on placement preparation (Corporate Etiquette and Personality Development) in the 4th semester.</li> </ul>

The semester wise course scheme along with percentage of curriculum change is given below in Table 3 and Table 4:

Course Code	Course Name	Course Type	Cd	Marks			%age of Syllabus Change
				Sessional	Final Exam	Total	
COM-301	Computer Organization and Architecture	PCC	4	50	100	150	100%
COM-302	Operating Systems	PCC	4	50	100	150	100%
COM-303	Foundation of Cyber Security	PCC	3	50	100	150	100%



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COM-305	Professional Industrial Training/ Internship	Summer Internship	3	-	100	100	100%
COM-304	Core Elective *	PEC	2	50	-	50	100%
BSC-301	Introduction to Probability and Statistics	BSC	3	50	100	150	100%
HSMC-301	Principles of Management	HSMC	3	50	100	150	100%
COM-311	Cyber Security Foundation Lab	PCC	2	50	-	50	100%
COM-312	Operating Systems Lab	PCC	2	50	-	50	100%
NCC-301	Placement overview and Career Planning	NCC	0	Satisfactory / Non Satisfactory		S/NS**	100%
<b>Total</b>			<b>26*</b>			<b>1000*</b>	

Table 3: 3<sup>rd</sup> Semester B.Tech CSE (Cyber Security) Batch 2023-27 and Beyond

Course Code	Course Name	Course Type	Cd	Marks			%age of Syllabus Change
				Sessional	Final Exam	Total	
COM-401	Design and Analysis of Algorithms	PCC	4	50	100	150	100%
COM-402	Relational Database Management System	PCC	4	50	100	150	100%
COM-403	Foundations of Cryptography	PCC	4	50	100	150	100%
BSC-401	Discrete Mathematics	BSC	3	50	100	150	100%
COM-411	Database Systems Lab	PCC	2	50	-	50	100%
COM-412	Network Security Foundation Lab	PCC	2	50	-	50	100%
OEC-401	Open Elective*	OEC	2	-	50	50	100%
NCC-401	Corporate Etiquette and Personality Development	NCC	0	Satisfactory / Unsatisfactory		S/NS**	100%
<b>Total</b>			<b>21</b>			<b>750</b>	

Table 4: 4<sup>th</sup> Semester B.Tech CSE (Cyber Security) Batch 2023-27 and Beyond

The detailed curriculum for 3<sup>rd</sup> and 4<sup>th</sup> semester is attached as **Annexure II**.

**5. To formulate the curriculum/syllabi for 1<sup>st</sup> & 2<sup>nd</sup> semesters of the B.Tech CSE (AI&ML) and CSE (Cyber Security) program for 2024-28 batch.**

The members recommended the following curriculum for 1<sup>st</sup> & 2<sup>nd</sup> semesters of the B.Tech CSE (AI&ML) and CSE (Cyber Security) program for 2024-28 batch and onwards based on the suggestions received from faculty members . This was done to streamline the allocation of courses, such as Physics, among the faculty to ensure an even distribution of workload during both the semesters.



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Course Code	Course Name	Course Type	Cd	L	T	P	Marks			%age of Syllabus Change
							Sessional	Final Exam	Total	
BSC-101	Engineering Mathematics-I	BSC	5	4	1	0	50	100	150	No Change in Curriculum. Few Courses highlighted in yellow have been moved from 1st to 2nd and 2nd to 1st respectively
<b>ESC-101</b>	Basic Electrical and Electronics Engineering	ESC	4	3	1	0	50	100	150	
COM-101	Introduction to C Programming	ESC	5	4	1	0	50	100	150	
<b>HSMC-101</b>	Technical Communication	HSMC	4	4	0	0	50	100	150	
<b>ESC-111</b>	Basic Electrical and Electronics Engineering Lab	ESC	1	0	0	2	50	0	50	
COM-111	C Programming Lab	ESC	2	0	0	4	50	0	50	
NCC-101	Induction Training	NCC	0	0	0	4	-	-	S/NS*	
MCC-102	Indian Constitution	MCC	1	1	0	0	50	-	50	
Total			22	29					750	

Table 5: 1<sup>st</sup> Semester B.Tech CSE (AI&ML) & (Cyber Security) Batch 2024-28 and Beyond

Course Code	Course Name	Course Type	Cd	L	T	P	Marks			%age of Syllabus Change
							Sessional	Final Exam	Total	
BSC-201	Engineering Mathematics-II	BSC	5	3	2	0	50	100	150	No Change in Curriculum. Few Courses highlighted in yellow have been moved from 1st to 2nd and 2nd to 1st respectively
COM-201	Data Structures using C	PCC	4	3	1	0	50	100	150	
<b>BSC-202</b>	Engineering Physics	BSC	5	4	1	0	50	100	150	
<b>HSMC-201</b>	Design Thinking	HSMC	3	2	1	0	50	100	150	
COM-211	Data Structures using C Lab	PCC	2	0	0	4	50	0	50	
<b>BSC-212</b>	Engineering Physics Lab	BSC	1	0	0	2	50	0	50	
COM-212	Business Process Automation with RPA Lab	ESC	2	0	0	4	50	0	50	
NCC-201	Environment and Sustainability	NCC	0	2	0	0	-	-	S/NS*	
Total			22	29					750	

Table 6: 2<sup>nd</sup> Semester B.Tech CSE (AI&ML) & (Cyber Security) Batch 2024-28 and Beyond



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\*Note: S=Satisfactory, NS=Not Satisfactory.

The detailed curriculum for 1<sup>st</sup> and 2<sup>nd</sup> is attached as **Annexure III**.

**6. To recommend changes in the curriculum/syllabi for the 5<sup>th</sup> and 6<sup>th</sup> semesters of the B.Tech CSE for 2022-26 batch and beyond.**

The members were apprised about the changes recommended in the existing curriculum for the 5<sup>th</sup> and 6<sup>th</sup> semesters of the B.Tech CSE for 2022-26 batch and beyond. 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:

Existing Curriculum	Changes Incorporated
<b>5th Semester</b>	
Course Name: Python Programming-I Course Code: COM-501 Credits: 4	<b>Number of Credits reduced from 4 to 3</b> Course Name: Python Programming Course Code: COM-501 Credits: 3
Professional Industrial Training / Internship Course Code: COM-504	<b>Change in Course Code</b> Professional Industrial Training / Internship Course Code: COM-505
Course Name: Open Elective 1 Course Code: HSMC-501 Course Type: OEC	<b>Introduced Professional Elective Course in place of Open Elective 1</b> Course Name: Core Elective Course Code: COM-504 Course Type: PEC
NA	<b>New Course Introduced</b> Course Name: Seminar Course Code: COM-506 Course Type: PCC Credits: 2 Marks: 50
Computer Networks Lab Course Code: COM-512 Credits: 1 Marks: 50	<b>Number of Credits increased from 1 to 2</b> Computer Networks Lab Course Code: COM-512 Credits: 2 Marks: 50
Placement Preparation-I Course Code: HSMC-511 Credits:2 Marks:50	<b>Course type changed to an audit course from a credit course</b> Placement Preparation-I Course Code: NCC-501 Credits:0 Marks: S/NS
<b>6th Semester</b>	
Course Name: Software Engineering Course Code: COM-603 Credits: 4	<b>Number of Credits reduced from 4 to 3</b> Course Name: Software Engineering Course Code: COM-603 Credits: 3
Course Name: MOOC	<b>Introduced Open Elective Course in place of</b>



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Course Code: NCC-601 Type: NCC Credits: 0 Marks: S/NS	<b>an audit course</b> Course Name: Open Elective Course Code: OEC-601 Type: OEC Credits: 2 Marks: 50
Course Name: Mini Project Lab Course Code: COM-612 Credits: 1	<b>Number of Credits increased from 1 to 2</b> Course Name: Mini Project Lab Course Code: COM-612 Credits: 2
Course Name: Placement Preparation-II Course Code: HSMC-611 Course Type: HSMC Credits: 2 Marks: 50	<b>Course Name: Placement Preparation-II</b> Course Code: NCC-601 Course Type: NCC Credits: 0 Marks: S/NS

Table 7: Changes in the 5<sup>th</sup> & 6<sup>th</sup> Semester B.Tech CSE Batch -2022-26

The detailed curriculum for 5<sup>th</sup> & 6<sup>th</sup> is attached as **Annexure IV**.

**7. To recommend changes in the existing curriculum for the 3<sup>rd</sup> and 4<sup>th</sup> semesters of B.Tech CSE and B.Tech CSE (AI & ML) for 2023-27 batch and beyond.**

The members were apprised about the changes recommended in the existing curriculum 3<sup>rd</sup> and 4<sup>th</sup> semesters of B.Tech CSE and B.Tech CSE (AI & ML) for 2023-27 batch and beyond. 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:

Existing Syllabus	Changes Incorporated
<b>B.Tech CSE -3rd Semester</b>	
Design and Analysis of Algorithms (COM-301) Credits: 5	<b>Number of Credits reduced from 5 to 4</b> Design and Analysis of Algorithms (COM-301) Credits: 4
Digital Electronics (ESC-301) Credits: 4	<b>Number of Credits reduced from 5 to 4</b> Digital Electronics (ESC-301) Credits: 3
Professional Industrial Training / Internship Course Code: COM-303	<b>Course Code Changed</b> Professional Industrial Training / Internship Course Code: COM-305
MOOC (MNC-XXX) Credits: 0 Total Marks: S/NS	<b>Introduced Professional Elective Course in place of an audit course</b> Course Type: PEC Core Elective (COM-304) Credits: 2 Total Marks: 50
Course Name: Discrete Mathematics Course Code: BSC-301	<b>Introduced new course and move the existing course to 4th semester</b>





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	Course Name: Introduction to Probability and Statistics Course Code: BSC-301
Principles of Management (HSMC-301) Credits: 2	<b>Number of Credits increased from 2 to 3</b> Principles of Management (HSMC-301) Credits: 3
Placement overview and Career Planning (HSMC-312) Credits: 1 Marks :50	<b>Course Type changed to an audit course</b> Placement overview and Career Planning (NCC-301) Credits: 0 Course Type: NCC Total Marks: S/NS
<b>B.Tech CSE-4th Sem</b>	
Computer Organization and Architecture (COM-403) Credits: 5	<b>Number of Credits reduced from 5 to 4</b> Computer Organization and Architecture (COM-403) Credits: 4
NA	<b>Course moved from 3rd Sem to 4th Sem in place of HSMC-401</b> Discrete Mathematics (BSC-401) Credits: 3 Course Type: BSC
Entrepreneurship and Business Strategies (HSMC-401) Credits: 3 Course Type: HSMC	<b>Introduced an Open Elective Course in place of HSMC-401</b> Open Elective (OEC-401) Credits: 2 Marks: 50
Corporate Etiquette and Personality Development Course Code: HSMC-412 Course Type: HSMC Credits: 1 Marks: 50	<b>Course Type Changed to an Audit Course</b> Corporate Etiquette and Personality Development Course Code: NCC-401 Course Type: NCC Credits: 0 Marks: S/NS

Table 8: Changes in the 3<sup>rd</sup> & 4<sup>th</sup> Semester B.Tech CSE Batch -2023-27

Existing Syllabus	Changes Incorporated
<b>B.Tech CSE AI &amp; ML-3rd Sem</b>	
Design and Analysis of Algorithms (COM-301) Credits: 5	<b>Number of Credits reduced from 5 to 4</b> Design and Analysis of Algorithms (COM-301) Credits: 4
Python Programming (COM-303) Credits: 4	<b>Python Programming (COM-303)</b> <b>Credits: 4</b>
Professional Industrial Training / Internship Course Code: COM-304	<b>Course Code changed from COM-304 to COM-305</b> Professional Industrial Training / Internship Course Code: COM-305
MOOC (MNC-XXX) Credits: 0 Total Marks: S/NS	<b>Introduced Professional Elective Course in place of an audit course</b> Course Type: PEC Core Elective (COM-304) Credits: 2 Total Marks: 50
Principles of Management (HSMC-301) Credits: 2	<b>Number of credits increased from 2 to 3</b> Principles of Management (HSMC-301)



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	Credits: 3
Placement overview and Career Planning (HSMC-312) Credits: 1 Marks :50	<b>Course Type changed to an audit course</b> <b>Placement overview and Career Planning (NCC-301)</b> Credits: 0 Course Type: NCC Total Marks: S/NS
<b>B.Tech CSE AI &amp; ML-4th Sem</b>	
Discrete Mathematics (BSC-401) Credits: 4	<b>Number of Credits reduced from 4 to 3</b> Discrete Mathematics (BSC-401) Credits: 3
NA	<b>Introduced an Open Elective Course</b> Open Elective (OEC-401) Credits: 2 Marks: 50
Corporate Etiquette and Personality Development Course Code: HSMC-412 Course Type: HSMC Credits: 1 Marks: 50	<b>Course Type changed to an audit course</b> Corporate Etiquette and Personality Development Course Code: NCC-401 Course Type: NCC Credits: 0 Marks: S/NS

Table 9: Changes in the 3<sup>rd</sup> & 4<sup>th</sup> Semester B.Tech CSE (AI&ML) Batch -2023-27

The detailed curriculum for 3<sup>rd</sup> and 4<sup>th</sup> semesters is attached as **Annexure V**.

**8. To formulate the curriculum/syllabi for the 3<sup>rd</sup> and 4<sup>th</sup> semesters of the BCA (Hons.) for 2023-27 batch and beyond.**

Resolved that the syllabi of the 3<sup>rd</sup> and 4<sup>th</sup> semesters of the BCA (Hons.) for 2023-27 batch and beyond be endorsed to the Academic Council for its approval. The highlights of the curriculum of the 3<sup>rd</sup> and 4<sup>th</sup> semesters are given below:

3 <sup>rd</sup> Semester	4 <sup>th</sup> Semester
<ul style="list-style-type: none"> <li>● <b>Core Courses and Labs</b> <ul style="list-style-type: none"> <li>❖ Introduction to Python Programming</li> <li>❖ Computer Organization</li> <li>❖ Python Programming Lab</li> </ul> </li> <li>● <b>Multi-disciplinary course Electives</b> <ul style="list-style-type: none"> <li>❖ Community Engagement</li> <li>❖ Design for Sustainability</li> <li>❖ Emotional Intelligence in Business</li> </ul> </li> <li>● <b>Ability Enhancement Course Electives</b> <ul style="list-style-type: none"> <li>❖ Negotiation and Conflict Resolution</li> <li>❖ Personal Finance and Wealth Management</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>● <b>Core Courses</b> <ul style="list-style-type: none"> <li>❖ Relational Database Management System</li> <li>❖ Introduction to Data Science</li> <li>❖ Internet of Things</li> <li>❖ Cloud Computing</li> </ul> </li> <li>● <b>Labs</b> <ul style="list-style-type: none"> <li>❖ Database Lab</li> <li>❖ IoT Lab</li> </ul> </li> <li>● Introduction of audit course on Placement Preparation Course (Corporate Etiquette and Personality Development)</li> <li>● Specialization Course of 4 Credit in (AI &amp; ML/Cyber Security/Data</li> </ul>



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<p align="center">❖ Public Speaking and Presentation Skills</p> <ul style="list-style-type: none"> <li>● Specializations in Artificial Intelligence, Cyber Security, Cloud Computing, and Data Analytics</li> <li>● Introduction of audit course on Placement Preparation Course (Placement Overview and Career Planning)</li> <li>● 2-Credit Internship after the completion of 2<sup>nd</sup> Semester</li> </ul>	<p>Analytics/Cloud Computing)</p>
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The semester wise course scheme along with percentage of curriculum changed in those courses is give below in Table 10 and Table 11:

Course Code	Course name	Course Type	Cd	L	T	P	Marks
UGSEC-305	Internship	Summer Internship	2	0	0	0	100

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

Course Code	Course name	Course Type	Cd	L	T	P	Marks			%age Change in syllabus
							Mid Semester	End Semester	Total	
BCAMJ-301	Introduction to Python Programming	Major	4	4	0	0	40	60	100	100%
BCAMJ-302	Computer Organization	Major	4	4	0	0	40	60	100	100%
UGMDC-303	Multidisciplinary Elective*	MDC	3	3	0	0	40	60	100	100%
UGAEC-304	Ability Enhancement Elective **	AEC	3	3	0	0	40	60	100	100%
BCAMI-306	Minor***	Minor	4	2	0	0	40	60	100	100%
BCAMJ-307	Python Programming Lab	Major	2	0	0	4	50	-	50	100%
NCC-301	Placement Overview and Career Planning	NCC	0	0	0	2	Satisfactory / Not Satisfactory		S/NS**	100%
<b>Total</b>			22	16	0	4	250	300	650	

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

**Multi-Disciplinary Courses \***

**\*Note: Students are required to opt for courses from one multi-disciplinary stream from multiple streams on offer.**



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Course Code	Course name	Course Type	Cd	L	T	P	Marks			%age Change in Syllabus
							Mid Semester	End Semester	Total	
UGMDC 303(A)	Community Engagement	MDC	3	3	0	0	40	60	100	100%
UGMDC 303(B)	Design for Sustainability	MDC	3	3	0	0	40	60	100	100%
UGMDC 303©	Emotional Intelligence in Business	MDC	3	3	0	0	40	60	100	100%

**Ability Enhancement Courses \*\***

**\*Note: Students are required to opt for courses from one Ability Enhancement stream from multiple streams on offer.**

Course Code	Course name	Course Type	Cd	L	T	P	Marks			%age change in syllabus
							Mid Semester	End Semester	Total	
UGSEC 304(A)	Negotiation and Conflict Resolution	AEC	3	3	0	0	40	60	100	100%
UGSEC 304(B)	Personal Finance and Wealth Management	AEC	3	3	0	0	40	60	100	100%
UGSEC 304(C)	Public Speaking and Presentation Skills	AEC	3	3	0	0	40	60	100	100%

**Minor Courses \*\*\***

**\*Note: Students are required to opt for courses from one minor stream from multiple streams on offer.**

Course Code	Course name	Course Type	Cd	L	T	P	Marks			%age Change in Syllabus
							Mid Semester	End Semester	Total	
BCAMI-AI /CS/CC/D A-306	Artificial Intelligence/ Cyber Security/Cloud Computing/Data Analytics	Minor	4	4	0	0	40	60	100	100%
<b>Total</b>			4	4	0	0	40	60	100	

Table 10: Changes in the 3<sup>rd</sup> Semester BCA Hons. Batch -2024-28

Course Code	Course name	Course Type	Cd	L	T	P	Marks			%age Change in Syllabus
							Mid Semester	End Semester	Total	
BCAMJ-40 1	Relational Database Management	Major	4	4	0	0	40	60	100	100%
BCAMJ-40 2	Introduction to Data Science	Major	4	4	0	0	40	60	100	100%
BCAMJ-40 3	Internet of things	Major	4	4	0	0	40	60	100	100%



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BCAMJ-404	Cloud Computing	Major	4	4	0	0	40	60	100	100%
BCAMI-405	Minor**	Minor	4	2	0	0	40	60	100	100%
BCAMJ-406	Database LAB	Major	1	0	0	4	25	-	25	100%
BCAMJ-407	Internet of things Lab	Major	1	0	0	4	25	-	25	100%
NCC-401	Placement Preparation-I	NCC	0	0	0	2	Satisfactory / Not Satisfactory		S/NS**	100%
<b>Total</b>			22	18	0	4	250	300	550	

**Minor Courses \*\***

**\*Note: Students are required to opt for courses from one minor stream from multiple streams on offer.**

Course Code	Course name	Course Type	Cd	L	T	P	Marks			%age Change in Syllabus
							Mid Semester	End Semester	Total	
BCAMI-AI/CS/CC/D A-405	Artificial Intelligence/ Cyber Security/Cloud Computing/Data Analytics	Minor	4	4	0	0	40	60	100	100%
<b>Total</b>			4	4	0	0	40	60	100	

Table 11: Changes in the 4<sup>th</sup> Semester BCA Hons. Batch -2024-28

The detailed curriculum of 3<sup>rd</sup> and 4<sup>th</sup> semester is attached as **Annexure VI**.

**9. To formulate the curriculum/syllabi of the 1<sup>st</sup> and 2<sup>nd</sup> semesters of the BCA (Hons.) for 2024-28 batch and beyond.**

The members were apprised about the changes recommended in the existing curriculum of the 1<sup>st</sup> and 2<sup>nd</sup> semesters of the BCA (Hons.) for 2024-28 batch and beyond. The following curriculum was recommended to Academic Council for their approval:

Course Code	Course name	Course Type	Cd	L	T	P	Marks			%age Change in Syllabus
							Mid Semester	End Semester	Total	
BCAMJ-101	Programming in C	Major	4	4	0	0	40	60	100	No Change
UGMDC-102	Multidisciplinary Elective*	MDC	3	3	0	0	40	60	100	100%
UGAECC-103	Ability Enhancement Elective **	AEC	3	3	0	0	40	60	100	100%



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UGSEC-104	Skill Enhancement Elective ***	SEC	2	4	0	0	50	-	50	100%
UGVAC-105	Sports and Fitness	Value Added course	2	2	0	0	50	-	50	No Change
BCAMI-106	Web Technologies	Minor	4	4	0	0	40	60	100	No Change
UGNCC-107	Business Mathematics & Statistics	NCC		4	0	0	-	-	S/NS*	No Change
BCAMJ-108	C Programming Lab	Major	2	0	0	4	50	-	50	No Change
BCAMI-109	Web Technologies Lab	Minor	2	0	0	4	50	-	50	No Change
<b>Total</b>			22	24	0	8	360	240	600	

**Multi disciplinary Courses\***

\*Note: Students are required to opt for one course from Multi-disciplinary courses from multiple subjects on offer.

Course Code	Course Name	Course Type	C d	L	T	P	Marks			%age Change in Syllabus
							Mid Semester	End Semester	Total	
UGMDC-102 (A)	Introduction to Design Thinking	MDC	3	3	0	0	40	60	100	100%
UGMDC-102 (B)	Environmental Sustainability	MDC	3	3	0	0	40	60	100	No Change
UGMDC-102 (C)	Cultural Competence and Global Awareness	MDC	3	3	0	0	40	60	100	100%

**Ability Enhancement\*\***

\*Note: Students are required to opt for one course from Ability Enhancement courses from multiple subjects on offer.

Course Code	Course Name	Course Type	C d	L	T	P	Marks			%age Change in Syllabus
							Mid Semester	End Semester	Total	
UGAECC-103 (A)	Time Management and Productivity	AEC	3	3	0	0	40	60	100	100%
UGAECC-103 (B)	Corporate Etiquette and Professionalism	AEC	3	3	0	0	40	60	100	No Change



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UGAECC -103 (C)	Introduction to Leadership Development	AEC	3	3	0	0	40	60	100	100%
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**Skill Enhancement\*\*\***

\*Note: Students are required to opt for one course from Ability Enhancement courses from multiple subjects on offer.

Course Code	Course Name	Course Type	Cd	L	T	P	Marks			%age Change in Syllabus
							Mid Semester	End Semester	Total	
UGSEC-1 04 (A)	Foundations of IT	SEC	3	3	0	0	50	-	50	No Change
UGSEC-1 04 (B)	Introduction to Digital Marketing	SEC	3	3		0	50	-	50	100%
UGSEC-1 04 (C)	Fundamentals of Business Communication	SEC	3	3	0	0	50	-	50	No Change

Table 12: Changes in the 1<sup>st</sup> Semester BCA Hons. Batch -2024-28

Course Code	Course name	Course Type	Cd	L	T	P	Marks			%age Change in Syllabus
							Mid Semester	End Semester	Total	
BCAMJ-201	Data Structure Using C	Major	4	4	0	0	40	60	100	No Change
UGMDC-202	Multidisciplinary Elective *	MDC	3	3	0	0	40	60	100	100%
UGAEC-203	Ability Enhancement Elective **	Ability Enhancement	3	3	0	0	40	60	100	100%
UGSEC-204	Skill Enhancement Elective ***	Skill Enhancement	2	0	0	4	50	-	50	100%
UGVAC-205	Universal Human Values	Value Added course	2	2	0	0	50	-	50	No Change
BCAMJ-206	Data Structure Lab	Major	2	0	0	4	50	-	50	No Change
BCAMI-207	Robotic Process Automation	Minor	4	0	0	4	100	-	100	No Change
<b>Total</b>			20	12	0	12	370	180	550	

**Multi-disciplinary Courses\***

\*Note: Students are required to opt for one course from multi-disciplinary courses from multiple subjects on offer.

Course Code	Course Name	Course Type	Cd	L	T	P	Marks	%age Change in Syllabus
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							Mid Semester	End Semester	Total	
UGMDC-202(A)	Social Innovation and Entrepreneurship	MDC	3	3	0	0	40	60	100	100%
UGMDC-202(B)	Introduction to Behavioral Economics	MDC	3	3	0	0	40	60	100	100%
UGMDC-202(C)	Ethics and Social Responsibility in Business	MDC	3	3	0	0	40	60	100	100%

**Ability Enhancement\*\***

\*Note: Students are required to opt for one course from Ability Enhancement courses from multiple subjects on offer.

Course Code	Course Name	Course Type	C	L	T	P	Marks			%age Change in Syllabus
							Mid Semester	End Semester	Total	
UGAECC-203(A)	Negotiation and Conflict Resolution	AEC	3	3	0	0	40	60	100	100%
UGAECC-203(B)	Personal Branding and Image Management	AEC	3	3	0	0	40	60	100	100%
UGAECC-203(C)	Emotional Intelligence in Business	AEC	3	3	0	0	40	60	100	100%

**Skill Enhancement\*\*\***

\*Note: Students are required to opt for one course from Ability Enhancement courses from multiple subjects on offer.

Course Code	Course Name	Course Type	C	L	T	P	Marks			%age Change in Syllabus
							Mid Semester	End Semester	Total	
UGSEC-204(A)	Office Productivity Tools	SEC	3	0	0	3	50	-	50	No Change
UGSEC-204(B)	E-commerce	SEC	3	3	0	0	50	-	50	100%
UGSEC-204(C)	Entrepreneurship Development and Small Business Management	SEC	3	3	0	0	50	-	50	100%

Table 13: Changes in the 2<sup>nd</sup> Semester BCA Hons. Batch -2024-28

The detailed curriculum of 1<sup>st</sup> and 2<sup>nd</sup> semester is attached as **Annexure VII**.





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**10. To recommend changes in the existing curriculum of the MCA program for batch 2023-25 and beyond.**

The members were apprised about the changes recommended in the existing curriculum of the MCA program for batch 2023-25 and beyond (for 3<sup>rd</sup> & 4<sup>th</sup> semester). In addition to this the members were apprised about the changes made in the 1st and 2nd semester for the batch 2024-26 and beyond. 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:

Existing Syllabus	Changes Incorporated
<b>All Semesters</b>	
Course Codes adopted from JU Curriculum	<b>Nomenclature of Course Codes changed for all the courses of MCA program as per institutional format</b> (1 <sup>st</sup> -4 <sup>th</sup> Semester)
<b>2nd Sem</b>	
NA	<b>Introduced an audit course in MCA-2<sup>nd</sup> Semester</b> Placement Overview and Career Planning (NCC-201)
<b>3rd Sem</b>	
NA	<b>Introduced Summer Internship in MCA-3<sup>rd</sup> semester at the end of 2<sup>nd</sup> semester.</b> Internship MCA-306
<b>Electives:</b> <ul style="list-style-type: none"> <li>● PSCSATE 355 -Computer Graphics</li> <li>● PSCSATE 356 -Image Processing and Computer Vision</li> <li>● PSCSATE 357- Mobile Computing</li> <li>● PSCSATE 358- Numerical &amp; Statistical Computing</li> <li>● PSCSATE-359 Software Engineering</li> <li>● PSCSATE-360 Fuzzy Logic</li> </ul>	<b>Introduced Specializations in AI/Cyber Security/ and Cloud Computing in place of elective courses.</b> Student would be required to choose a specialization at the start of 3rd semester and would undertake 2 courses including one each in 3rd and 4th semester  SPCAI/CS/CC-307 Artificial Intelligence and Machine Learning/ Cyber Security/ Cloud Computing
<b>4th Sem</b>	



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<p><b>Full Semester Internship</b> <b>PSCSATC 480 -Project Open Course-II</b></p>	<p><b>Introduced two Schemes in 4th semester. The details are given as follows</b></p> <p><b>Scheme 1</b></p> <ul style="list-style-type: none"> <li>● Two professional electives with each professional elective comprising three courses within its respective group have been introduced.</li> <li>● An audit course on the Essence of Indian Knowledge and Tradition has been introduced to enhance students' understanding of the Indian knowledge system.</li> <li>● A Major Project course of 10 credits have been introduced.</li> </ul>
	<p><b>Scheme 2:</b></p> <ul style="list-style-type: none"> <li>● Semester-long industry internship has been introduced in the 4th semester as part of the Scheme 2. In accordance with the guidelines of the institution, students are expected to seek internships that fulfil specific conditions. These conditions include the internship being provided by a registered company, certified by bodies like NASSCOM or MSME, and offering a stipend of at least 15,000 rupees.</li> <li>● Within the structure of Scheme 2, students who are either already engaged in entrepreneurial pursuits or are aspiring to establish a startup venture can explore this avenue. This initiative can seamlessly integrate within the broader framework of Scheme 2. However, it is essential that the startup venture is registered under the Startup India program and adheres to the institution's regularly updated guidelines.</li> </ul>

The semester wise course scheme along with percentage of curriculum change is given below in Table 14,15 and Table 16:

Course Code	Course name	Course Type	Cd	L	T	P	Marks			%age Change in Syllabus
							Mid Semester Exam	Final Exam	Total	
MCA-201	Data Structures	PCC	4	4	0	0	40	60	100	No change in the curriculum
MCA-202	Object Oriented Programming in Java	PCC	4	4	0	0	40	60	100	



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MCA-203	Computer Networks	PCC	4	4	0	0	40	60	100	
MCA-224	Design & Analysis of Algorithms	PCC	4	4	0	0	40	60	100	
MCA-225	Artificial Intelligence	PCC	4	4	0	0	40	60	100	
MCA-211	Data Structure Lab	PCC	3	0	0	3	-	75	75	
MCA-212	Java Programming Lab	PCC	3	0	0	6	-	75	75	
NCC-201	Placement Overview and Career Planning	NCC	0	0	0	2	Satisfactory / Not Satisfactory		S/NS**	100%
<b>Total</b>			26	20	0	10	200	450	650	

Table 14: Changes in the 2<sup>nd</sup> Semester MCA Batch - 2023-25

Course Code	Course name	Course Type	Cd	L	T	P	Marks	%age Change in Syllabus
MCA-306	Internship	Summer Internship	4	0	0	0	100	100%

Course Code	Course name	Course Type	Cd	L	T	P	Marks			%age Change in Syllabus
							Mid Semester Exam	Final Exam	Total	
MCA-301	Theory of Computation and Compiler Design	PCC	4	4	0	0	40	60	100	No change in the curriculum
MCA-302	Web Technologies	PCC	4	4	0	0	40	60	100	
MCA-303	Machine Learning using Python	PCC	4	4	0	0	40	60	100	
MCA-304	Big Data Analytics Using R	PCC	4	4	0	0	40	60	100	
MCA-305	SWAYAM/NPTEL MOOC/any other Platform	MOOC	4	2	0	0	-	100	100	100%
MCA-311	Web Technologies Lab	PCC	3	0	0	6	-	75	75	No Change in the Curriculum
MCA-312	Python Lab	PCC	3	0	0	6	-	75	75	
<b>Total</b>			34	22	0	10	120	430	850	

**Specialization Track Courses**



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Course Code	Specialization Track	Course Type	Cd	L	T	P	Marks			%age Change in Syllabus
							Mid-Semester	End-Semester	Total	
SPC-AI/C S/CC-307	Artificial Intelligence and Machine Learning/ Cyber Security/ Cloud Computing	MOOC	4	4	0	0	40	60	100	100%

Table 15: Changes in the 3<sup>rd</sup> Semester MCA Batch - 2023-25

**Note:** Students can enroll in only one course from the chosen specialization Course. Total Marks is 100 for any one of the chosen courses in the specialization Course.

**Scheme-1**

Course Code	Course name	Course Type	Cd	L	T	P	Marks			%age Change in Syllabus
							Mid-Semester	Final Exam	Total	
MCA-401	Project	PROJ	10	0	0	20	100	150	250	100%
MCA-402	Professional Elective 1	PEC	4	4	0	0	40	60	100	100%
MCA-403	Professional Elective 2	PEC	4	4	0	0	40	60	100	100%
NCC-401	Essence of Indian Knowledge and Tradition	NCC	0	0	0	2	Satisfactory/ Not Satisfactory		S/NS*	100%
<b>Total</b>			22	08	0	22	220	330	550	

**Professional Elective Courses List**

S. No.	Semester	Course Code	Course Name
1	4	MCA 402	(A) Cloud Computing and Services
2			(B) High Performance Computing
3			(C) Soft Computing
4		MCA 403	(A) Object-Oriented Analysis and Design
5			(B) Software Testing and Automation
6			(C) Applied Data Science

**Specialization Track Courses**

Course Code	Specialization Track	Course Type	Cd	L	T	P	Marks			%age Change in Syllabus
							Mid-Semester	End-Semester	Total	



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SPC-AI/C S/CC-404	Artificial Intelligence and Machine Learning/ Cyber Security/ Cloud Computing	MOOC	4	4	0	0	40	60	100	100%
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**Note:** Students can enroll in only one course from the chosen specialization Course. Total Marks is 100 for any one of the chosen courses in the specialization Course.

**Scheme-2**

Course Code	Course name	Course Type	Cd	L	T	P	Marks			%age Change in Syllabus
							Mid-Semester	Final Exam	Total	
PII-401	Industry Internship	Professional Industry Internship	22	0	0	30	200	350	550	100%
<b>Total</b>			22	0	0	30	200	350	550	

Table 16: Changes in the 4<sup>th</sup> Semester MCA Batch - 2023-25

The detailed curriculum for 1<sup>st</sup> and 2<sup>nd</sup> semester (2024-26) & 3<sup>rd</sup> and 4<sup>th</sup> semester (2023-25) is attached as **Annexure VIII and Annexure IX**.

The meeting concluded with a vote of thanks.

**Prof. Ankur Gupta**  
**Director, MIET**

Copy to:

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