COLLEGE OF COMPUTING SCIENCES AND INFORMATION TECHNOLOGY
TEERTHANKER MAHAVEER UNIVERSITY
DELHI ROAD, MORADABAD

Ref: TMU/CCSIT/CRC/22-23/EVEN/07   Date: July 17, 2023

To,
All the Esteemed Members
Board of Study
College of Computing Sciences & Information Technology,
Teerthanker Mahaveer University
Moradabad
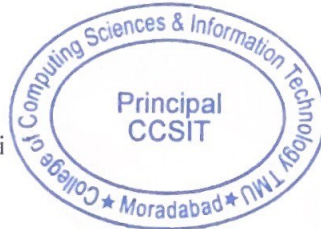
Subject: Minutes of meeting of the BOS.

Sir/Madam,

We express our sincere gratitude for attending the meeting of BOS held on July 17th, 2023 and giving your valuable contributions to the development of the college.

We are sending the minutes of the meeting of BOS with request to kindly send (if any) your comments with-in the period of seven days from the date of issue of this letter.
Once again, we express our thanks and look forward for your kind support in the future endeavors of the University.

Thanking you,
With kind regards,

Prof. Rakesh Kr. Dwivedi
(Principal, CCSIT)

Copy to:
1. PS to the Vice-Chancellor for kind information of the Hon'ble Vice-Chancellor
2. Registrar for kind information
3. Dean-Academics for kind information
4. Associate Dean-Academics for kind information
5. Controller of Examination
6. Joint-Registrar Academics for kind information
7. Joint-Registrar (R & D) for kind information
8. HOD and all faculty members of CCSIT through e-mail
9. External Experts through e-mail

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COLLEGE OF COMPUTING SCIENCES AND INFORMATION TECHNOLOGY
TEERTHANKER MAHAVEER UNIVERSITY
DELHI ROAD, MORADABAD

TEERTHANKER MAHAVEER UNIVERSITY MORADABAD

MINUTES OF MEETING OF THE

BOARD OF STUDIES (BOS)

Date: 17 July, 2023 (Monday)
Time: 10:30 A.M.
Venue: Principal office, CCSIT, TMU/Google Meet

MINUTES OF THE MEETING OF THE BOARD OF STUDY HELD ON MONDAY, 17 JULY, 2023 AT 10:30 A.M. IN PRINCIPAL OFFICE/ONLINE MODE USING GOOGLE MEET PLATFORM

A meeting of Board of studies held on July 17ᵗʰ, 2023 at 10:30 A.M. in Principal office/online mode using zoom platform.

The Following members were present in the meeting:

- Prof. R. K. Dwivedi (Principal, CCSIT and Chairperson, Board of Study)
- Prof. M. N. Huda (Professor, Bharti Vidyapeeth's Institute of Computer Applications and Management, New Delhi; External Expert, In online mode)
- Prof. R. C. Tripathi (Member)
- Prof. Ashendra Kumar Saxena (Member)
- Prof. Bhupaesh Ghai (Member)
- Dr. Parag Agarwal (Member & Coordinator, BOS)
- Dr. Anil Kumar Singh (Member)
- Dr. Sandeep Verma (Member)
- Dr. Priyank Singhal (Member)
- Dr. Nuparam Chauhan (Member)
- Dr. Shalini Ninoria (Member)
- Dr. Vipin Khattri (Member)
- Dr. Namit Gupta (Member)
- Mr. Amit Kumar Vishnoi (Member, CRC)
- Dr. Ranjana Sharma (Member & Program Coordinator, B.C.A.)
- Ms. Anu Sharma (Member & Program Coordinator, M.Tech.)
- Ms. Neeraj Kumari (Program Coordinator, B. Sc. (H) CS)
- Mr. Rupal Gupta (Program Coordinator, B.Tech.-CSE)
- Mr. Vivek Kumar (Program Coordinator, B.Tech. (Data Science) in Collaboration with TCSiON)
- Mr. Amit Kumar Singh (Program Coordinator, B.Tech. (CSE) with Specialization in Application Development using cloud and Analytics Platforms (in association with IBM)
- Mr. Jyoti Ranjan Labh (Program Coordinator, B. Sc. Animation)
- Mohd. Salman (BCA Program Coordinator, i-nurture)
- Mr. Shashank Saxena (Faculty, i-nurture)
- Mr. Rajendra Prasad Pandey (Coordinator, Value Added Courses)

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- Mr. Namit Gupta (Incharge, Time Table Committee)
- Dr. Saurabh Pathak (Examination Incharge)
- Mr. Vineet Kumar Chauhan (T & P Cell Incharge, CCSIT)

The meeting started with the warm welcome by the chairperson, Prof. R. K. Dwivedi to all the members. Following are the discussions and decisions took place during the meeting:

List of Agenda Items

Item No.	Particulars
Items for Ratification/Reporting	
1.1	**Confirmation of the minutes of the last meeting.** The minutes of previous meeting of BOS held on 08th November-2021 were circulated to all the members vide letter number TMU/CCSIT/CRC/21-22/ ODD/10 dated November 13, 2021. Since no comments were received, the Board of Study was requested to confirm the minutes of the last meeting. The motion was seconded by Prof. M. N. Huda. **RESOLVED THAT THE MINUTES OF THE PREVIOUS MEETING AS ABOVE ARE CONFIRMED** [Annexure 1]
1.2	**Ratification of the curriculum and syllabi for the 4 years B.Sc. –CS (H) program as per NEP commencing from session 2023-24 by Ms. Neeraj Kumari** The curriculum and syllabi for the Program Bachelor of Science (Hons./Hons. with Research)-Computer Science was presented by Ms. Neeraj Kumari, Program Coordinator of B.Sc. (H) CS commencing from session 2023-24 as per UGC-National Education Policy 2020 and TMU guidelines. The BOS has approved the curriculum and syllabi for this program in the present form. [Annexure 2]
1.3	**Ratification of the curriculum and syllabi for the 4 years B.C.A. (H) program as per NEP commencing from session 2023-24 by Dr. Ranjana Sharma** The curriculum and syllabi for the Program Bachelor of Computer Applications (Honours/Honours with Research) was presented by Dr. Ranjana Sharma, Program Coordinator of B.C.A. commencing from session 2023-24 as per UGC-National Education Policy 2020 and TMU guidelines. The BOS has approved the curriculum and syllabi for this program in the present form. [Annexure 3]

1.4	**Regarding modification in admission eligibility criteria of BCA program from session 2023-24 by Dr. Ranjana Sharma** The proposed modification in eligibility criteria for admission in the Program, Bachelor of Computer Applications (Honours/Honours with Research) was presented by Dr. Ranjana Sharma, Program Coordinator of B.C.A. She informed that the running criteria is the student must have passed the 10+2 examination from any recognized board with Mathematics at the 10th level. She Proposed the criteria should be Class 12 with any stream. The BOS has approved the proposed modification in eligibility criteria for admission in the Program, Bachelor of Computer Applications (Honours/Honours with Research).
1.5	**Ratification of the curriculum and syllabi for the 4 years B.C.A. (H) program in Collaboration with i-Nurture as per NEP commencing from session 2023-24 by Mr. Salman Khan** The curriculum and syllabi for the Program Bachelor of Computer Applications – Specialization in Mobile Application and Web Technology (Honours/Honours with Research) and Bachelor of Computer Applications - Specialization in Cloud Technology and Information Security (Honours/Honours with Research) was presented by Mohd. Salman, Program Coordinator of B.C.A. in Collaboration with i-Nurture commencing from session 2023-24 as per UGC-National Education Policy 2020 and TMU guidelines. The BOS has approved the curriculum and syllabi for this program in the present form. [Annexure 4]
1.6	**Ratification of the proposed modification in curriculum and syllabi of the program M.Tech (CSE) from session 2023-24 by Ms. Anu Sharma** The curriculum and syllabi for the Program M. Tech (CSE) with Specializations was presented by Ms. Anu Sharma, Program Coordinator, M. Tech. (CSE). The specializations are offered in Artificial Intelligence and Machine Learning, Information Security, Cloud Computing and Data Analytics. The BOS has approved the curriculum and syllabi for this program in the present form. [Annexure 5]
1.7	**Ratification of the revision in the curriculum and syllabi of the program B.Tech (CSE) in Collaboration with IBM from session 2023-24 by Mr. Amit Singh** Mr. Amit Singh, Program Coordinator B.Tech.(CSE) in Colloboration with IBM with Specialization in Application Development using Cloud and Analytics Platforms proposed some revision in the curriculum and syllabi of this program as per recommendations received

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	IBM subject matter experts (IBM-SME). Few courses are proposed to sweep in semester 3, 4 and 5 as given in annexure 6. One new course, Blockchain (IBD 614) has been added in the VI semester. [Annexure 6]
1.8	**Ratification of the removal of the course 'English Communication II' in the program B.Tech. (Data Science) in collaboration with TCSiON from session 2023-24 by Mr. Vivek Kumar** Vivek Kumar, Program Coordinator, B. Tech. (CSE) Specialization in Data Science under Industry Honor Program (IHP) in collaboration with TCSiON, has proposed a change in the 2nd Semester for the admitted batch of session 2023-24. He has proposed to remove one course, English Communication II, out of two courses of English (1) English Communication II [TGE203] and (2) Business English [TMUTGE 201]. The BOS has approved the change, and the final proposed program matrix is attached herewith. [Annexure 7]
1.9	**Status of Syllabus Feedback from the Stakeholders by Dr. Shalini Ninoria (Criteria Coordinator 1)** Dr. Shalini Ninoria (Criteria Coordinator 1) presented the detailed feedback analysis on the syllabi of different program's by their stakeholders. Special feedback forms in the form of questionnaires were designed to obtain feedback from the stake holders like faculty members, aluminise and professional from industry and academic. Feedback is taken both offline and online mode. The feedback forms and detailed analysis is attached in annexure 8. BOS appreciated the efforts made my Dr. Shalini Ninoria. [Annexure 8]
1.10	**Approval of Spoken Tutorial, IIT Bombay as a part of evaluation scheme in the internal assessment of lab in each semester (2nd year onwards for UG programs and 1st year onwards for PG programs) from session 2023-24** Dr. Vipin Khattri, Coordinator, IIT Spoken Tutotrial Program, CCSIT proposed to consider the Spoken Tutorial-IIT Bombay as a part of evaluation scheme in the internal assessment of lab in each semester (2nd year onwards in UG programs and Ist year onwards in PG programs). He proposed that in each semester, one lab course from evaluation scheme should be mapped with course provided by the Spoken Tutorial-IIT Bombay and weightage of 10 marks should be included for internal lab assessment. BOS recommended that the Spoken Tutorial-IIT

	Bombay can be a part of evaluation scheme in the internal assessment of lab as proposed.
1.11	**Approval of short term courses for session 2023-24 by Mr. Rajender Prasad Panday** Mr. Rajender Prasad Panday, Short Term Program Coordinator, CCSIT proposed the list of short term value added courses for the session 2023-24. BOS has recommended the proposed short term value added courses. [Annexure 9]
1.12	**Approval of MOOC/edX courses in all programs for session 2023-24 by respective program co-ordinators** Mr. Rupal Gupta, Program Coordinator, B.Tech. (CSE) and B.Tech. CSE-Specialization in Artificial Intelligence, Machine Learning & Deep Learning presented the proposed MOOC/edX courses for the session 2023-24. The MOOC/edX courses are being opted by students in four programs **(i)** B.Tech. CSE (in Collaboration with IBM) Application Development using Cloud and Analytics Platforms (ii) B.Tech. CSE-Specialization in Artificial Intelligence, Machine Learning & Deep Learning (iii) B.Tech. Computer Science & Engineering The details of the MOOC/edX courses to be opted in session 2022-23 are mentioned in annexure 6. BOS has approved the proposed list courses. [Annexure 10]
1.13	**Approval of open elective courses in all programs for session 2023-24 by respective program co-ordinators** Prof. Ashendra Kumar Saxena, Vice-Principal, CCSIT proposed the open elective courses by CCSIT for session 2023-24. BOS has approved the proposed list of open elective courses. [Annexure 11]
1.14	**Approval of list of examiners for external practical exams in all programs running in the college for the odd semester 2023-24 by Mr. Mohan Vishal Gupta.** Mr. Mohan Vishal Gupta, Coordinator, Lab Review Committee, CCSIT proposed the list of examiners for external practical exams in all programs running in the college for the odd semester 2023-24. BOS has approved the proposed list of examiners. [Annexure 12]
1.15	**Status of course allocation and faculty load for odd semester 2023-24 by Prof. Ashendra Kumar Saxena**

	Prof. Ashendra Kumar Saxena, Vice-Principal, CCSIT informed the members that the course allocation and faculty load process for odd semester 2023-24 is going on and will be finalized soon.
1.16	**Status of seed money project by Prof. Ashendra Kumar Saxena** Prof. Ashendra Kumar Saxena informed the members that three research projects are running as seed money projects by the University with a total grant of 4.8 lacs. [Annexure 13]
1.17	**Status of Psychomotor Skills by Prof. Bhupaesh Ghai** Prof. Bhupaesh Ghai presented the status on the psychomotor skills development with the role/profit sheet, design of google form for collecting data from the students and excel sheet for maintaining the database. It has been decided by the BOS that from the beginning of new session 2023-24, a meeting of Program Coordinators will be held for the complete awareness of the psychomotor skills development. [Annexure 14]
1.18	**Status of odd semester 2023-24 time-table by Dr. Namit Gupta** Dr. Namit Gupta, Incharge-Time Table, CCSIT informed the members that the time table for odd semester 2023-24 will be released shortly after finalization of course allocation.
1.19	**Status & Roadmap of placements by Mr. Vineet Chauhan, Coordinator, T& P Cell, CCSIT** Mr. Vineet Chauhan, Coordinator, T& P Cell, CCSIT shared the placement statistics. He told that approximately 40% students were placed and 71% of registered students were having offers. He also presented the road map for session 2023-24. [Annexure 15]
1.20	**Status of even semester 2022-23 exams and award sheet submission by Dr. Saurabh Kumar** Dr. Saurabh Kumar, Examination In charge, CCSIT informed the members that all the award sheet of even semester 2022-23 internal and external examinations have been submitted the office of Controller of Examination, TMU.
1.21	**Program wise admission status by Mr. Manish Tiwari** The program wise admission status was shared by Mr. Manish Tiwari, AR, Academics, CCSIT. [Annexure 16]

	Action Taken Report (ATR) on the minutes of the last meeting
2.1	Curriculum and syllabi for the Program B.Sc. with Cognitive Sciences (B.Sc. C.G.) commencing from session 2022-23 has been approved in Academic Council.
2.2	Curriculum and syllabi for the Program B. Tech. (Specialization in Cyber Security) in collaboration with i-nurture commencing from session 2023-24 has been approved in Academic council.
2.3	The revised syllabus of the English Communication-I & English Communication-II with the revised codes TGE111 & TGE211 respectively for the UG programme have been implemented in the curriculum and syllabi of all UG programs.
2.4	The approved MOOC/edX courses for session 2022-23 were opted and completed by the students.
2.5	The approved open elective courses courses for session 2022-23 were opted and completed by the students.
2.6	The evaluation scheme of CTLD courses has been changed from session 2022-23.
	Items for Discussion & Consideration
3.1	**Discussion of the curriculum and syllabi for the 4 years B.Sc. –CS (H) program as per NEP commencing from session 2023-24 by Ms. Neeraj Kumari** The curriculum and syllabi for the Program Bachelor of Science (Hons./Hons. with Research)-Computer Science was discussed and approved by BOS.
3.2	**Discussion of the curriculum and syllabi for the 4 years B.C.A. (H) program as per NEP commencing from session 2023-24 by Dr. Ranjana Sharma** The curriculum and syllabi for the Program Bachelor of Computer Applications (Honours/Honours with Research) was discussed and approved by BOS.
3.3	**Discussion regarding modification in admission eligibility criteria of BCA program from session 2023-24 by Dr. Ranjana Sharma** The proposed modification in eligibility criteria for admission in the Program, Bachelor of Computer Applications (Honours/Honours with Research) was discussed and approved by BOS.
3.4	**Discussion of the curriculum and syllabi for the 4 years B.C.A. (H) program in Collaboration with i-Nurture as per NEP commencing from session 2023-24 by Mr. Salman Khan** The curriculum and syllabi for the Program Bachelor of Computer Applications –

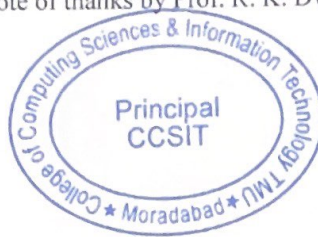|	
	Specialization in Mobile Application and Web Technology (Honours/Honours with Research) and Bachelor of Computer Applications - Specialization in Cloud Technology and Information Security (Honours/Honours with Research) was discussed and approved by BOS.
3.5	**Discussion of proposed modification in the curriculum and syllabi of the program M.Tech (CSE) from session 2023-24 by Ms. Anu Sharma** The proposed modification in the curriculum and syllabi of the program M.Tech (CSE) was discussed and approved by BOS.
3.6	**Discussion of the revision in the curriculum and syllabi of the program B.Tech (CSE) in Collaboration with IBM from session 2023-24 by Mr. Amit Singh** The revision in the curriculum and syllabi of the program, B.Tech (CSE) in Colloboration with IBM with Specialization in Application Development using Cloud and Analytics Platforms was discussed and approved by BOS.
3.7	**Discussion of the removal of the course 'English Communication II' in the program B.Tech. (Data Science) in collaboration with TCSiON from session 2023-24 by Mr. Vivek Kumar** The proposal to remove one course in second semester, English Communication II, out of two courses of English (1) English Communication II [TGE203] and (2) Business English [TMUTGE 201] in the program B. Tech. (CSE) Specialization in Data Science under Industry Honor Program (IHP) in collaboration with TCSiON was discussed and approved by BOS.
Items for Approval	
4.1	**Curriculum and syllabi for the 4 years B.Sc. –CS (H) program as per NEP commencing from session 2023-24** The curriculum and syllabi for the Program Bachelor of Science (Hons./Hons. with Research)- Computer Science was approved by BOS.
4.2	**Curriculum and syllabi for the 4 years B.C.A. (H) program as per NEP commencing from session 2023-24** The curriculum and syllabi for the Program Bachelor of Computer Applications (Honours/Honours with Research) was approved by BOS.
4.3	**Modification in admission eligibility criteria of BCA program from session 2023-24** The proposed modification in eligibility criteria for admission in the Program, Bachelor of Computer Applications (Honours/Honours with Research) was approved by BOS.
4.4	**Curriculum and syllabi for the 4 years B.C.A. (H) program in Collaboration with i-**

	Nurture as per NEP commencing from session 2023-24 The curriculum and syllabi for the Program Bachelor of Computer Applications – Specialization in Mobile Application and Web Technology (Honours/Honours with Research) and Bachelor of Computer Applications - Specialization in Cloud Technology and Information Security (Honours/Honours with Research) was approved by BOS.
4.5	**Modification in the curriculum and syllabi of the program M.Tech (CSE) from session 2023-24** The curriculum and syllabi for the Program M. Tech (CSE) with Specializations in Artificial Intelligence and Machine Learning, Information Security, Cloud Computing and Data Analytics was approved by BOS.
4.6	**Revision in the curriculum and syllabi of the program B.Tech (CSE) in Collaboration with IBM from session 2023-24** The revision in the curriculum and syllabi of the program, B.Tech (CSE) in Collaboration with IBM with Specialization in Application Development using Cloud and Analytics Platforms was approved by BOS.
4.7	**Removal of the course 'English Communication II' in the program B.Tech. (Data Science) in collaboration with TCSiON from session 2023-24** The proposal to remove one course in second semester, English Communication II, out of two courses of English (1) English Communication II [TGE203] and (2) Business English [TMUTGE 201] in the program B. Tech. (CSE) Specialization in Data Science under Industry Honor Program (IHP) in collaboration with TCSiON was approved by BOS.
4.8	**Short term value added courses for session 2023-24** The short term value added courses for the session 2023-24 was approved by BOS.
4.9	**Approval of MOOC/edX courses in all programs for session 2023-24** The proposed MOOC/edX courses for the session 2023-24 were approved by BOS.
4.10	**Approval of open elective courses in all programs for session 2023-24** The proposed open elective courses by CCSIT for session 2023-24 were approved by BOS.
4.11	**Approval of list of examiners for external practical exams in all programs running in the college for the odd semester 2023-24** The list of examiners for external practical exams in all programs running in the college for the odd semester 2023-24 was approved by BOS.
	Agenda with the Permission of Chair:
4.12	Mr. Rupal Gupta, Program Coordinator, B.Tech. (CSE) and B.Tech. CSE-Specialization in

	syllabus of the course "Android Programming (ECS 717)" in B.Tech. (CSE) VII semester. The same change is also proposed in B.Tech (CSE) in Collaboration with IBM with Specialization in Application Development using Cloud and Analytics. This change in syllabus is proposed to be effective for session 2020-21, 2021-22, 2022-23 and 2023-24. The proposed change in syllabus was discussed and approved in BOS. [Annexure 17]
4.13	Mr. Jyoti Ranjan Labh, Program Coordinator, B.Sc. Animation has proposed to add 8 new courses and to delete 5 existing courses from the course matrix of B.Sc. Animation. The old and new course matrixes are attached in annexure 18. The proposed changes were discussed and approved in BOS. [Annexure 18]

The meeting ended with vote of thanks by Prof. R. K. Dwivedi to all the members.

Prof. Rakesh Kr. Dwivedi
(Principal, CCSIT)

Copy to:
1. PS to the Vice-Chancellor for kind information of the Hon'ble Vice-Chancellor
2. Dean-Academics for kind information
3. Registrar for kind information
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6. External Experts through e-mail
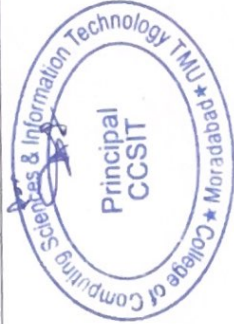7. HOD and all faculty members of CCSIT through e-mail

New programmes of study offered by CCSIT & i-Nurture with effect from Session 2023-24 in BOS of CCSIT on dated 17 July, 2023

S. No	Name of the Programs added
1	Bachelor of Computer Applications (Honours/Honours with Research)
2	Bachelor of Science (Hons./Hons. with Research)-Computer Science
3	Bachelor of Computer Applications – Specialization in Mobile Application and Web Technology (Honours/Honours with Research)
4	Bachelor of Computer Applications - Specialization in Cloud Technology and Information Security (Honours/Honours with Research)

Principal
CCSIT

Course added/ Changes in courses of the Program B.Tech. (Data Science) in Collaboration with TCSiON to be effected from Academic Session 2023-24, offered by CCSIT in BOS on dated 17 July, 2023

S. No	Name & code of the courses added	Name & code of the courses deleted	Name & code of the courses where revision is more than 20%	Name of the stakeholder from where the inputs have been received	Need /rationale to justify the revision
1		English Communication II (TGE203)		Subject Faculty	Two English Courses in 2nd Semester in BTECH027

Course added/ Changes in courses of program B.Tech.(CSE) in Colloboration with IBM with Specialization in Application Development using Cloud and Analytics Platforms to be effected from Academic Session 2023-24, offered by CCSIT in BOS on dated 17July, 2023

S. No	Name & code of the courses added	Name & code of courses deleted	Name & code of the courses where revision is more than 20%	Name of the stakeholder from where the inputs have been received	Need /rationale to justify the revision
1	Basics of Information ManagementIBD312	OOPS with JavaIBD311		IBM Subject Matter Expert	
2	Basics of Information Management Lab IBD352	OOPS with Java lab IBD351		IBM Subject Matter Expert	
3	OOPS with Java IBD412	Basics of Information ManagementIBD411		IBM Subject Matter Expert	
4	OOPS with Java IBD452	Basics of Information Management lab& IBD451		IBM Subject Matter Expert	
5	Big Data Engineering IBD516	Hadoop Fundaments IBD515		IBM Subject Matter Expert	
6	Big Data Engineering Lab IBD555	Hadoop Fundaments lab IBD554		IBM Subject Matter Expert	
7	Blockchain IBD614			IBM Subject Matter Expert	
8	Blockchain Lab IBD654			IBM Subject Matter Expert	

Course added/ Changes in courses of program B.Sc. Animation to be effected from Academic Session 2023-24, offered by CCSIT in BOS on dated 17July, 2023

S. No	Name & code of the courses added	Name & code of the courses deleted	Name & code of the courses where revision is more than 20%	Name of the stakeholder from where the inputs have been received	Need /rationale to justify the revision
1	BSA- 259: Concepts of 2D Animation and Techniques- Lab	BSA 257: Audio & Video-Editing -LAB		Students & Faculty	The Theory of Animate was there but lab subject was required along with this editing is added with motion graphics subject to balance the syllabus.
2	BSA- 312: Concepts of Video editing, motion graphics & FX	BSA 309 : concepts of motion graphics & FX		Students & Faculty	The editing part included in motion graphics
3	BSA- 360: Concepts of Video editing, motion graphics & FX-Lab	BSA 357 : concepts of motion graphics & FX-lab		Students & Faculty	The editing part included in motion graphics
4	BSA-517 (Elective-6):Concepts of print design	BSA 516 : Design for print		Students & Faculty	Coral draw is removed in old subject and presented in new code
5	BSA-563 (Elective-8)Concepts of print design-Lab	BSA 562 : Design for print -lab		Students & Faculty	Coral draw is removed in old subject and presented in new code
7	BSA-611 (Elective-11)Trending Technology in digital media			Students & Faculty	Due to new software and new update in industry we proposed this subject
8	BSA-662 (Elective-12)Trending Technology in digital media-Lab			Students & Faculty	Due to new software and new update in industry we proposed this subject

Course added/ Changes in courses of M.Tech CSE Programme to be effected from Academic Session 2023-24, offered by CCSIT in BOS on dated 17 July, 2023

S. No	Name & code of the courses added	Name & code of the courses deleted	Name & code of the courses where revision is more than 20%	Name of the stakeholder from where the inputs have been received	Need /rationale to justify the revision
1	MCS 114- Advanced Algorithms and Data Structure	MCS107 Data Warehousing and Mining		ALUMNI FACULTY	As per Industry need
2	MCS 113 Research Methodology	MCS 112 Advanced Data Structure and Algorithms.			
3	MCS 206 Neural Networks	MCS 153 Data Warehousing and Mining Lab			
4	MCS 241 Artificial Intelligence and Intelligent System	MCS 204 Big Data Analytics and Business Intelligence			
5	MCS 242 Machine Learning with python	MCS 205 Semantic Web and Social Networks			
6	MCS 254 Machine Learning with python Lab	MCS 252 Advanced Computer Network Lab			
7	MCS 243 Network Security	MCS 253 Big Data Lab			
8	MCS 244 Cyber Security	MCS 303 Network Security and Cryptography			
9	MCS 255 Cyber Security Lab	MCS 304 Artificial Intelligence and Machine Learning			
10	MCS 245 Network	MCS 339 Cloud			

Course added/ Changes in courses of M.Tech CSE Programme to be effected from Academic Session 2023-24, offered by CCSIT in BOS on dated 17 July, 2023

	Security	Computing			
11	MCS 246 Cloud Architectures	MCS 353 Artificial Intelligence And Machine Learning Lab			
12	MCS 256 Cloud Computing Lab				
13	MCS 247 Data Mining and Warehousing				
14	MCS 248 Big Data Analytics				
15	MCS 257 Data Mining and Warehousing Lab				
16	MCS 305 Advanced Operating System				
17	MCS 346 Natural Language Processing				
18	MCS 347 Deep Learning				
19	MCS 348 Cyber Forensics, Audit and Investigation				
20	MCS 349 Digital Forensics				
21	MCS 340 Cloud Security				
22	MCS 341 Cloud Application Development and Management				

Course added/ Changes in courses of M.Tech CSE Programme to be effected from Academic Session 2023-24, offered by CCSIT in BOS on dated 17 July, 2023

| 23 | MCS 342 | Data Science | | | |
| 24 | MCS 343 | Social Network Analytics | | | |

Principal
CCSIT
College of Computing Sciences & Information Technology TMU ★ Moradabad ★