



तीर्थंकर महावीर विश्वविद्यालय
Teerthanker Mahaveer University
An Affiliated University for World Class Education

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

Ref: TMU/CCSIT/CRC/19-20/Even/63

Date: March 07th, 2020

Subject: - Minutes of Meeting of Board of Studies (BOS)

Sir/Madam,

We express our sincere gratitude for attending meeting of Board of Studies and giving your valuable contribution for discussing the Academic progress of the college.

We are sending the Minutes of Meeting of Board of Studies for your kind information.

Thanking You,

With warm regards,



Copy to:

1. PS to the Vice-Chancellor for kind information of the Hon'ble Vice-Chancellor
2. PS to the Pro Vice-Chancellor for kind information of the Hon'ble Pro Vice-Chancellor
3. Registrar for kind information
4. 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. Joint-Registrar (Governance) for kind information
9. HOD and all faculty members of CCSIT through e-mail

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: 07 March, 2020 (Saturday)

Time: 11:00 A.M.

Venue: Principal office, CCSIT, TMU

Meeting of Board of Studies (BOS) hold on 07 March, 2020

Item No.	Particulars																				
Items for Ratification/Reporting																					
1.1	Confirmation of the minutes of the last meeting																				
1.2	Regarding the consideration of amendments in syllabi of various courses and curriculum of programs of study as per CBCS Norms.																				
1.3	Regarding the development of new syllabi in the programs commencing from session 2020-21 B. Tech. in Computer Science & Engineering B. Tech. (CSE) specialization in Artificial Intelligence, Machine Learning & Deep Learning B. Tech. (CSE) specialization in Cloud Technology & Information Security (In collaboration with i-Nurture) B. Tech. (CSE) specialization in Artificial Intelligence (In collaboration with i-Nurture) B.Tech (CSE) with Specialization in Application Development using Cloud and Analytics Platforms (in association with IBM) BCA BCA -specialization in Mobile Application & Web Technology (In collaboration with i-Nurture) BCA -specialization in Cloud Technology & Information Security (In collaboration with i-Nurture) I) BCA specialization in Data Science (In collaboration with i-Nurture) J) B.Sc. (Honors) Computer Science K) B.Sc. (Animation) L) M. Tech. (CSE) M) MCA <div style="text-align: right;">By Respective Course Coordinator</div>																				
1.4	Proposed syllabus for the Program commencing from session 2020-21 :-B.Tech. -Specialization in Data Science - (In collaboration with i-Nurture) by Mr. Pramod Vishwkarma																				
1.5	Information regarding the registration in the Ph.D. Program <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>S. No.</th><th>Candidate Name</th><th>Registration Status</th><th>Title</th><th>Stream</th></tr> </thead> <tbody> <tr> <td>1.</td><td>Navneet Vishnoi</td><td>Registration offer letter received</td><td>Designing Dynamic Adjustment Approach of Event Reliability in Wireless Sensor Network</td><td>Computer Applications</td></tr> <tr> <td>2.</td><td>Amit Singh</td><td>Registration offer letter received</td><td>Analysis of Biomedical Images for Lungs Cancer Detection Using Machine Learning Techniques</td><td>Computer Applications</td></tr> <tr> <td>3.</td><td>Narendra Singh</td><td>Registration offer letter received</td><td>Information Extraction Using Machine Learning Approaches on Big Data</td><td>Computer Applications</td></tr> </tbody> </table>	S. No.	Candidate Name	Registration Status	Title	Stream	1.	Navneet Vishnoi	Registration offer letter received	Designing Dynamic Adjustment Approach of Event Reliability in Wireless Sensor Network	Computer Applications	2.	Amit Singh	Registration offer letter received	Analysis of Biomedical Images for Lungs Cancer Detection Using Machine Learning Techniques	Computer Applications	3.	Narendra Singh	Registration offer letter received	Information Extraction Using Machine Learning Approaches on Big Data	Computer Applications
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1.6	Information regarding research scholars presenting their semester progress report and best paper in CRC held on 20 th January, 2020. By Dr. Parag Agarwal and Dr. Ashok Kumar																				

The points discussed and covered in the meeting of BOS are as follows:

1.1: Confirmation of the minutes of the last meeting

The minutes of last meeting of BOS hold on 06 July, 2019 were confirmed by Chairperson, BOS Dr. R. K. Dwivedi.

1.2: Regarding the consideration of amendments in syllabi of various courses and curriculum of programs of study as per CBCS Norms.

Dr. A. K. Saxena, Head, CCSIT informed the BOS members that the amendments in syllabi of various courses and curriculum of programs of study have been done as per CBCS Norms. BOS has approved all these syllabi.

Mr. Priyank Singhal, Program Coordinator, MCA informed the experts and the members that he has changed in content of the course Computer Networks (MCA 220) as the syllabus of the course is not in tune with the MCA 2nd semester students requirements. The old and revised syllabus is attached as annexure 1 & 2.

There is no change in syllabus of any other course or curriculum of any other program.

1.3: Regarding the development of new syllabi in the programs commencing from session 2020-21

Mr. Priyank Singhal, Program Coordinator, MCA brought in to the notice of experts and the members that AICTE has directed to run the MCA program as a two year degree program. In the light of these guidelines the lateral entry scheme in MCA program needs to be close from next session i.e. 2020-21. He presented the proposed syllabi of Two years MCA program as per new guidelines of AICTE as w.e.f. 2020-21. Following are the suggestions of BOS on it:

Program Name	Master of Computer Applications (MCA)
Suggestion/corrections:	
1.	The external member, Prof. Raghuraj suggested that the industrial project in forth semester can be replaced with industrial training of 6 to 8 weeks in summer break so that the curriculum can be divided in 4 semester in place of three semester, but the college should wait for the releasing of model curriculum by AICTE for the program before finalizing the syllabus.
2.	Bridge course of 21 days should be introduced for students who don't have their UG degree in Computer Science/Information Technology/Computer Applications or who have not studied these courses in their UG degree.
3.	Environmental Studies (MCA 113) can be removed from the course matrix, as it is not mandatory for post graduation courses in UGC guidelines.
4.	Software Engineering & Software testing (MCA 117) should be renamed as Software Engineering
5.	Programming with C++ and JAVA (MCA 116) can be renamed as Object Oriented Programming.
6.	Data Analysis and data structure (MCA 224) should be taught as two separate courses.
7.	Data Science should be taught as theory paper and its implementation can be with R-programming.
8.	Web technologies should be introduced as a theory paper.
9.	Dot NET Framework with AJAX (MCA 311) should be renamed as Dot NET Framework.



10.	MOOC courses can be introduced as a part of curriculum of last semester.
11.	BOS has suggested to introduce the specialization in MCA with honors degree in following domains: (a) Software Engineering/Software Testing (b) Cyber & Network Security (c) Data Science (d) Artificial Intelligence/Machine learning (e) Digital marketing (f) Application Programming (g) Data Analytics (h) Mass Informatics (i) Geographic Information System/ Remote Sensing/Geo-informatics
12.	The MCA curriculum for two years should be mapped with AICTE model curriculum. The AICTE model curriculum has not yet been released. All the above suggestions will be subjected to the release of modal curriculum of MCA by AICTE.

1.4: Proposed syllabus for the Program commencing from session 2020-21:- B.Tech. -Specialization in Data Science (In collaboration with i-Nurture) by Mr. Pramod Vishwkarma

Mr. Pramod Vishwkarma, Program Coordinator [(B.Tech. (CSE)) i-Nurture, presented the proposed syllabi of B.Tech. (CSE) with specialization in Data Science as w.e.f. session 2020-21. Following suggestions were given to him by BOS.

Program Name	Bachelor of Technology [B.Tech. (CSE)] with specialization in Data Science in collaboration with i-Nurture
Suggestions/Corrections:	
1.	As per AICTE guidelines, Engineering chemistry can be removed and any course in relevance with data science can be introduced.
2.	Engineering Physics-I should be replaced with Engineering Physics as course is running in only one semester.
3.	Mock interviews can be introduced from VI th semester for all Engineering students.
4.	MOOC courses have to be introduced in VIII th semester and have to be clubbed with industrial training.
5.	Industrial internship quality should be improved by applying some quality assessment parameters.
6.	Some assessment platform is needed in the course Campus Recruitment Training (CRT-1 & CRT-2)
7.	BOS has suggested for course structure amendment to reduce number of courses in a semester.

1.5: Information regarding the registration in the Ph.D. Program

Dr. Parag Agarwal, Deputy coordinator and member, CRC presented the status of new enrolled research scholars who has qualified TRAT in July, 2019 cycle as given below.

Detail of New Enrolled Research Scholars

S. No.	Candidate Name	Registration Status	Title	Stream
1.	Navneet Vishnoi	Registration Done on 22/02/20	Designing Dynamic Adjustment Approach of Event Reliability in Wireless Sensor Network	Computer Applications
2.	Amit Singh	Registration Done on 22/02/20	Analysis of Biomedical Images for Lungs Cancer Detection Using Machine Learning Techniques	Computer Applications

3.	Narendra Singh	Registration pending	Information Extraction Using Machine Learning Approaches on Big Data	Computer Applications
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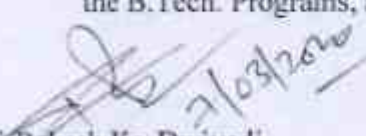
1.6: Information regarding research scholars presenting their semester progress report and best paper in CRC held on 20th January, 2020

Dr. Parag Agarwal, Deputy coordinator and member, CRC also presented the details of thesis awarded so far, thesis submitted and status of semester progress report and best paper presented in CRC held on 20th January, 2020 (Annexure 3), result of TRAT for January 2020 cycle (Annexure 4) and list of approved supervisors in Computer Science & Engineering/ Computer Applications (Annexure 5).

1.7: Regarding the status of CO's, PO's & PSO's of various syllabuses. By Dr. Ashendra Kumar Saxena

Dr. Ashendra Kumar Saxena, Head-CCSIT informed that CO's, PO's & PSO's of first year syllabus of all the programs have been approved by Hon'ble Pro-Vice Chancellor. Rest years syllabus's CO's, PO's & PSO's are in the process of finalization.

General suggestion: Engineering Physics-I should be replaced with Engineering Physics in all the B.Tech. Programs, as this course is running in only one semester.


Prof. Rakesh Kr. Dwivedi
(Principal, CCSIT)

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TEERTHANKER MAHAVEER UNIVERSITY
DELHI ROAD, MORADABAD

Ref: TMU/CCSIT/CRC/19-20/ODD/02

Date: July 6th, 2019

Subject: - Minutes of Meeting of Board of Studies (BOS) held on July,06-2019.

Sir/Madam,

We express our sincere gratitude for attending meeting of Board of Studies and giving your valuable contribution for discussing the Academic progress of the college.

We are sending the Minutes of Meeting of Board of Studies for your kind information:

Thanking You,

With warm regards,



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**TEERTHANKER MAHAVEER UNIVERSITY
MORADABAD**

**MINUTES OF MEETING OF THE
BOARD OF STUDIES (BOS)**

Date: 06 July, 2019 (Saturday)

Time: 11:00 A.M.

Venue: Principal office, CCSIT, TMU

Meeting of Board of Studies (BOS) Held on 06 July, 2019

Item No.	Particulars			
Items for Ratification/Reporting				
1.1	Confirmation of the minutes of the last meeting			
1.2	Development of new courses and amendments in syllabi of various courses and curriculum of programs of study as per CBCS Norms commencing from session 2019-20 <ul style="list-style-type: none"> A) B. Tech. in Computer Science & Engineering B) B. Tech. (CSE) specialization in Cloud Technology & Information Security (In collaboration with i-Nurture) C) BCA D) BCA -specialization in Mobile Application & Web Technology (In collaboration with i-Nurture) E) BCA -specialization in Cloud Technology & Information Security (In collaboration with i-Nurture) F) B.Sc. (Honors) Computer Science G) B.Sc. (Animation) H) M. Tech. (CSE) I) MCA J) B.Tech (CSE) with Specialization in Application Development using Cloud and Analytics Platforms (in association with IBM) K) B. Tech. (CSE) specialization in Artificial Intelligence, Machine Learning & Deep Learning L) B. Tech. (CSE) specialization in Artificial Intelligence (In collaboration with i-Nurture) M) BCA specialization in Data Science (In collaboration with i-Nurture) 			
1.3	Information regarding the registration in the Ph.D. Program			
S. No.	Candidate Name	Registration No.	Title	Date of Registration



	1.	Mohan Vishal Gupta	TCA 18 Ph.D/159	Assesment of Learning Algorithms for Remote Sensing Data Classification	10/06/2019
	2.	Vineet Saxena	TCA 18 Ph.D/160	Application of Machine Learning Algorithms on Temporal Remote Sensing Data for Crop Identification	10/06/2019
	3.	Rohaila Naaz	TCS18 Ph.D/160	A Secure Approach of Data Communication on Social Media using Blockchain Technology	20/06/19
1.4	Information regarding research scholars presenting their semester progress report and best paper in CRC to be held on 12 th July, 2019.				
1.5	Information regarding the dissertation progress of all M.Tech. scholars.				
1.6	Approval of CCSIT academic calendar				

The points discussed and covered in the meeting are as follows:

1. Ms. Neha Singh, i-Nurture, presented the proposed syllabi of B.Tech. (CSE) with specialization in Artificial Intelligence along with one other programs for session 2019-20 has been presented.

Program Name	Bachelor of Technology (B.Tech.) with specialization in CTIS from i-Nurture
Suggestions/Corrections:	
1.	In ICS851 industry internship must be approved by training and placement cell and from college principal.
2.	ICS401 should be renamed as Database Management system.
3.	In ICS752, the syllabus have to be reviewed.
4.	Synchronize with the university courses for common curriculum.

2. Mr. Vikrant , i-Nurture, presented the proposed syllabi of B.C.A. (Data Science) along with two other specialized programs i.e BCA (Cloud Technology & Information Security & Mobile Applications and Web Technologies) w.e.f. 2019-20.

Program Name	Bachelor of Computer Applications (B.C.A) with specialization in Data Science from i-Nurture
Suggestions/Corrections:	
1.	the contents of IDS105, IDS152 IDS605 should be reduced as it is very heavy.
2.	The number of contact hours should be reduced.
3.	BOS members has suggested to consider the level of learners before designing this curriculum.
4.	Need to take the inputs from BCA syllabus of university.
5.	Environmental Science should be of credit 3.
6.	IDS 152 practical assignment must be aligned with theory paper.
7.	B.Tech AI and BCA -Data Science Syllabus are almost same. It is advised to relooked.
8.	Whole syllabus content has to be redesigned as per BCA(DS, CTIS, MAWT) framework eligibility.

3. Presented by Ms. Neha Singh.



Program Name	Bachelor of Technology (B.Tech.) with specialization in Artificial Intelligence from i-Nurture
Suggestions/Corrections:	
1.	One course of compiler and automata should be included in the course syllabus of Credit-5.
2.	Number of experiments should be increased.
3.	IAI 706 pattern recognition should be mandatory course.
4.	IAI 709 syllabus has to be reviewed.
5.	Open electives offered by i-nurture has to be opted by other students
6.	The two categories are to be introduced for electives bucket having L3 T0 P0 and of L2 T0 P2.
7.	Before subject IAI704 embedded system some pre requisite courses are needed.
8.	Number of experiments has to be increased in IAI651.
9.	IAI 710 lab should be included.

4. Dr. Danish Ather, B.Sc. (H) CS Course-coordinator presented the proposed syllabi of B.Sc. (H) CS program w.e.f. 2019-20.

Program Name	B. Sc. (Hons.) Computer Science
Suggestions/Corrections:	
1.	NOSQL Database paper to be included in GE4
2.	Number of contact hours to be relook
3.	CSC 653- Project number of credit should be 4. Total number of hours is 8 (4 contact hours of supervisor interaction and 4 hours implementation in lab).

5. Mr. Priyank Singhal, MCA Course-coordinator presented the proposed syllabi of MCA program w.e.f. 2019-20.

Program Name	Master of Computer Applications (MCA)
Suggestion/corrections:	
1.	Some prerequisite to be provided before teaching MCA329 Artificial Intelligence e.g. Soft Computing.
2.	Incorporate topics of Compiler in MCA402 Theory of Computation.
3.	Include lab related to MCA528 Software Testing and Quality Assurance
4.	Reverse the condition for choosing MCA435 and MCA531. It will be mandatory for a student to study MCA435 (Research Tool - I) if he/she want to choose MCA 531 (Research Tool - II)
5.	Suggested to include Animation & Game Programming related theory paper and its corresponding lab

6. Dr. Ambuj Kumar Agarwal, BCA Course-coordinator presented the proposed syllabi of BCA program w.e.f. 2019-20.

Program Name	Bachelor of Computer Application (BCA)
Suggestion/corrections:	
1.	BCA 111 name should be Human Values & Professional Ethics.



2.	Relook the credit system of TMU III.
3.	BCA 518 name should be Digital Forensics and Investigation and BCA 562 is Digital Forensics and Investigation Lab.
4.	In fifth semester Gamification or Gaming in Animation paper to be included as elective with lab
5.	In fifth semester Software Estimation and Testing paper to be include as Elective.

7. Mr. Jyoti Ranjan Labh, presented the proposed syllabi of B.Sc. (Animation) program w.e.f. 2019-20.

Program Name	Bachelor of Science (Animation)
Suggestion/corrections:	
1.	Number of contact hour should be 30hrs max, hence change to 30 hrs.
2.	BSA 357-should be L-0,t-0,p-4 ,c-2 should be there.
3.	In all subjects where the allocated hours is 6 should 4..

8. Mr. Rupal Gupta, B.Tech. Course-coordinator presented the proposed syllabi of B.Tech. (CSE) program w.e.f. 2019-20.

Program Name	Bachelor of Technology B.Tech. (CSE)
Suggestion/corrections:	
1.	<p>BOS has approved the following changes in the syllabus of B.Tech. (CSE) program w.e.f. 2019-20-</p> <p>English communication syllabus has been modified for four semesters. (English communication-I, II, III, IV). Environment course has been placed in Audit Course. EGP of all semester has been placed in Audit Course. Management Concepts & Organizational Behavior will be replaced by EHM402. Managerial Economics & Engineering is replaced by EHM503. Project Management for Engineers is replaced by EHM703 and has been shifted to VIII semester. Human values and professional ethics paper has been redesigned by Mohd. Saleem, can be added as per AICTE/ UGC guidelines. Environment course has been placed in Audit Course. DGP of all semester has been placed in Audit Course.(Audit Course => mandatory to pass without credit). ECS305 Data Structure using C has been replaced by Data Structure using C++. ECS403 has been removed (oops with C++). ECS 452 (oops C++ lab) has been removed. ECS792 (Seminar) has been removed. ECS806 (android programming) has been shifted to Vth semester along with its lab. ECS502 computer architecture and ECS509 multimedia has been shifted to 6th semester elective-II list. ECS609 e-commerce has been shifted to elective-I in Vth semester. ECS704 software project management has been shifted to elective-I in semester Vth. ECS 715 has been shifted to</p>



elective-I in Vth semester. Data Warehousing and Data Mining with R- programming ECS801 and ECS851 has been shifted to 6th Semester. ECS611 Big Data Analytics has been shifted to 8th sem with lab. In 8th semester new elective has been added with these courses- ECS813 IOT, ECS814 Machine Learning AND ECS815 Block chain. OE -I added into 7th semester and OE-II added into 8th semester. Details will be shared by the university.

Suggestions given by BOS

External BOS expert Dr. Parmanad Mathematics III is suggested to be replaced with discrete mathematics. Probability and Statistics is suggested to be included in first year Mathematics papers. All Departmental Core(DC) of B.tech CSE should be same in all the specialized B.tech programs like AI-ML-DL/ IBM/ i-Nurture.

ECS714 -Python subject should be in DC and can be replaced by Android Programming.

It is suggested to reduce the departmental core as the credit is on higher side. Introduce more departmental electives(DE) based on separate buckets as on domains like AI and Cloud.

It is suggested to match credits of all CBCS categories as per the guideline of UGC and AICTE(recommended to match 160 credits).

Automata and compiler design can be merged to create one paper.

B.Tech CSE (AI/ ML/ DL)

It is suggested that TMU001 environment studies paper credits should be L-3 T- 0 P-0 C-3.

For software engineering and testing you can take the reference of IIT Hyderabad B.tech AI ML software testing syllabus for introducing the lab in testing. Dr Rakesh Dwivedi suggest that there should be one unit has to be specified for project or lab Teach soft computing to give the base of Artificial Intelligence..

credit suggested for EAI 505 Human values and professional ethics L-2 T-0 P-0 C-2

EAI555 flexibility has to be given to student by opening a window of short term course.

BOS suggested that all specialized program should come under the umbrella of B.Tech CSE for Accreditation purpose. BOS suggested to put B.tech AI program in Honours category as credits are approx 180.



EA1706 Pattern reorganization should be compulsory paper.
 Elective paper should be introduced from fifth semester onwards.
 EA1751 Digital Image processing Lab specify open source tools like Octave/Sci-lab.
 Credit balancing is to be relooked for humanity and Management courses.
 AI and ML in healthcare course can be introduced. EA1 809 Block chain technology should be departmental elective.
 HM category can be rename as humanities and social science.
 EA1 653 IOT lab credit can be L-0 T-0 P-2 C-1.
 Automata and compiler design can be merged to create one paper.


9. Mrs. Anu Sharma, M.Tech. Course-coordinator presented the proposed syllabi of M.Tech. (CSE) program w.e.f. 2019-20.

Program Name	Master of Technology M.Tech. (CSE)
Suggestion/corrections:	
1.	Rename Generic elective as Department elective.

10. Dr. Rajeev Kumar, B.Tech. (IBM) Course-coordinator presented the proposed syllabi of B.Tech. (IBM) program w.e.f. 2019-20.

Program Name	B.Tech. (CSE) with specialization in application development using Cloud and analytics platform in association with IBM.
Suggestions/Corrections:	
1.	IBD411 subject name should be renamed as Basics of Information Management. BOS suggested that all specialized program should come under the umbrella of B.Tech CSE for Accreditation purpose. It is suggested to match credits of all CBCS categories as per the guideline of UGC and AICTE(recommended to match 160 credits).


 Prof. Dr. Rakesh Kumar Dwivedi
 Principal, CSEIT


 Dr. S. K. Gupta
 External Member-BOS


 Dr. Parmanand
 External Member-BOS

- Encl.
 1. Attendance Sheet
 2. Old and revised course matrix of all courses

Prof. Rakesh Kr. Dwivedi
(Principal, CCSIT)

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Board of Studies (BOS)
College of Computing Sciences & Information Technology (CCSIT)
Teerthanker Mahaveer University
Moradabad

Performa 8

Attendance Sheet

Date:	06 th July, 2019
Time:	11:00AM-04:00 PM
Venue:	Principal Office, CCSIT
Purpose:	Board of Studies Meeting

S. No.	Member Name	Signature
1	Prof. R. K. Dwivedi Principal – CCSIT and Chairman – CRC	
2	Dr. S. K. Gupta External Member – BOS	
3	Dr. Parma Nand External Member – BOS	
4	Dr. Ashendra Kumar Saxena Member – CRC	
5	Dr. Ambuj Kumar Agarwal Member – CRC	
6	Dr. Parag Agarwal Deputy – Coordinator CRC	
7	Chandhu Bhardwaj	
8	Anu Sharma	
9	DR. SANDEEP VERMA	
10	Ajay Routog	
11	Neeraj Kumar Kumar	