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UNIVERSITY OF MYSORE

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No.AC.2(S)/384/14-15 Dated: 10-06-2015

NOTIFICATION

Sub: Revised admission Criteria and syllabi for M.Tech in Computer Science and Technology programme.

Ref: 1. Proceedings of Faculty of Science & Technology Meeting held on 02-02-2015.
2. Proceedings of the Meeting of Academic Council held on 27-03-2015.

The Board of Studies in **Computer Science (PG)** at its meeting held on 21-11-2014 has resolved to revised admission Criteria and syllabi for M.Tech in Computer Science and Technology programme from the academic year 2015-16.

The Faculty of Science and Technology and the Academic Council at their meetings held on 02-02-2015 and 27-03-2015 respectively approved the above proposals and the same is notified.

The copy of revised admission Criteria and syllabi for M.Tech in Computer Science and Technology programme is annexed.

DRAFT APPROVED BY THE REGISTRAR

16/6.

REGISTRAR.

12/06/15

12/6

To

1. The Registrar (Evaluation), University of Mysore, Mysore.
2. The Chairperson, BOS/DOS in Computer Science, MGM.
3. The Dean, Faculty of Science & Technology, DOS in Earth Science, MGM.
4. The Director, College Development Council, UOM, Mysore.
5. The Coordinator, Online & Outreach programme, Parakalamatta, MGM.
6. The Deputy/Assistant Registrar (Evaluation), University of Mysore, Mysore.
7. The Supdt, A.B., Academic Section / PMEB, UOM., Mysore.
8. The P.A. to the Vice-Chancellor/Registrar/Registrar(Evaluation), UOM., Mysore.
9. The Case Worker, AC.7, Academic Section, University of Mysore, Mysore.
10. The Section Guard File(Supdt.AC.2), A.B., A.C., UOM.
11. The Schedule File.

APPENDIX-CS-E

Amendments to M.Tech in Computer Science and Technology

SI No.	Existing	Amendment	Justification
1.	Admission eligibility M.Sc. in any discipline with Mathematics studied as a core subject in B.Sc./ M.Sc. Computer Science/ MCA/M.Sc. Information Science/ B.E. in any discipline with final project in Computer Science field.	M.Sc. in Computer Science/ Information Science/ Information Technology/ Computer Networking /Software Engineering/ any related field of study in Computer Science or Computer Engineering /MCA/B.E. or B.Tech. in Computer Science & Engineering / Information Science & Engineering / Information Technology / Computer Engineering / any related field of study in Computer Science or Computer Engineering.	The M.Tech. (CST) is a cross migration program to provide opportunity to non-Computer Science students to pursue Computer Science in Master's level. Of late, majority of students are from computer science background. Hence the eligibility criteria itself is changed and advanced courses will be offered to the students.
2.	Course list See Annexure A	See Annexure B	As the students admitted henceforth will have sufficient background of Computer Science and many courses in the current list will be obsolete.
3	Credit requirement HC : 18 SC : 18 El : 18 Pro : 10	HC : 16 SC : 20 El : 20 Pro : 08	All courses are of advanced level and also are made either 2 or 4 credits.

Annexure A:

Course List:

	Subject code and Subject Title	Credit Pattern
Hard Core		
CSTH1	Data Structures	2:0:1
CSTH2	Algorithmics	2:1:0
CSTH3	Database Management Systems	2:0:1
CSTH4	Computer Architecture	2:1:0
CSTH5	Software Engineering	2:1:0
CSTH6	Concepts of Programs and C	2:0:1
Soft Core		
CSTS1	Operating System	2:1:0
CSTS2	Data Communication	2:1:0
CSTS3	Computer Networks	2:0:1
CSTS4	Distributed DBMS	2:1:0
CSTS5	Theory of Languages	2:1:0
CSTS6	System Programming	2:1:0
CSTS7	Probability and Statistics	2:0:1
CSTS8	C++	2:1:0
CSTS9	Numerical Methods	2:0:1
CSTS10	Numerical Methods	2:1:0
CSTS11	Data Compression	2:1:0
Elective		
CSTE1	Compiler	2:0:1
CSTE2	Mobile Communication	2:1:0
CSTE3	Cryptography	2:1:0
CSTE4	Network Security (Prerequisite: CSTS3)	2:1:0
CSTE5	Multimedia	2:1:1
CSTE6	Simulation	2:1:0
CSTE7	OOAD	2:1:1
CSTE8	Artificial Intelligence	2:1:0
CSTE9	Optimization Models	2:1:0
CSTE10	Experiments in AI (Prerequisite CSTE8)	0:0:2

CSTE11	Internet Programming	1:0:1
CSTE12	Logic Programming	2:0:1
CSTE13	Decision Support Systems	2:0:1
CSTE14	Rough Sets	2:0:0
CSTE15	Wavelets	1:1:0
CSTE16	Non Linear Programming	1:1:0
CSTE17	Parallel Computing	1:0:1
CSTE18	Advanced Topics in Mathematics	2:1:0

Annexure B:

Department of Studies in Computer Science proposed course structure for M.Tech (CST) and M.Tech (CCT)

Requirements: Following are the minimum credits to be earned by a candidate in each group.

Group	Hard Core	Soft Core	Elective	Project	Total
Minimum Credits	16	20	20	08	64

M.Tech (CST)

	Subject code and Subject Title	Credit Pattern
Hard Core		
CSTH1	Advanced Data Structures and Algorithms	2:1:1
CSTH2	Advanced Computer Architecture	2:1:1
CSTH3	Advanced Concepts in DBMS	2:1:1
CSTH4	Advanced Data Communication and Computer Networking	2:1:1
Soft Core		
CSTS1	Formal Languages and Compiler Design	2:1:1
CSTS2	Advanced Computer Graphics	2:1:1
CSTS3	Object Oriented Programming	0:1:3
CSTS4	Information Retrieval	2:1:1
CSTS5	Cloud Computing	1:1:0
CSTS6	Internet Programming	0:1:1
CSTS7	Multimedia Data Processing	2:1:1
CSTS8	Artificial Intelligence	2:1:1
CSTS9	Advanced Mathematics, Probability and Statistics	3:1:0
CSTS10	Advanced Operating Systems and Systems Programming	2:1:1
CSTS11	Data Mining	2:1:1
CSTS12	Advanced Software Engineering	2:1:1
Elective		

CSTE1	Optimization	2:1:1
CSTE2	Cryptography	2:1:1
CSTE3	Simulation and Modeling (Prerequisite: CSTS9**)**	2:1:1
CSTE4	Advanced Numerical Computing	2:0:2
CSTE5	Soft Computing	3:0:1
CSTE6	Logic Programming	0:1:1
CSTE7	Data Compression	0:1:1
CSTE8	Rough Sets	2:0:0
CSTE9	Wavelets	1:1:0
CSTE10	Decision Support Systems	2:0:0
CSTE11	Pattern Recognition	2:1:1
CSTE12	Image Processing	2:1:1
CSTE13	Network Security (Prerequisite: CSTE2)	1:1:0
CSTE14	Graph Theory	2:1:1
CSTE15	Parallel Computing	2:0:2
CSTE16	Wireless Computing	3:0:1
CSTE17	Symbolic Data	2:1:1
CSTE18	Data Clustering	2:1:1
CSTE19	Fuzzy Sets and Logic	2:1:1
CSTE20	Biometrics	1:0:1
CSTE21	Medical Signal Processing	1:0:1
CSTE22	Robotics	1:0:1
CSTE23	Machine Learning	2:1:1
CSTE23	Content Management	0:1:1
CSTE24	Symantec Web	1:0:1
CSTE25	Embedded Systems	1:1:0
CSTE26	Virtual Reality	1:1:0

Note:

1. Additional credits earned through soft core can be transferred to elective credits.
2. Depending on the requirements and availability of expertise additional electives may be offered.

Amendments to M.Tech in Computer Cognition and Technology

SI No.	Existing	Amendment	Justification
1.	Course list See Annexure C	See Annexure D	Courses are done at advanced level
2.	Credit requirement HC : 18 SC : 18 El : 18 Pro : 10	 HC : 16 SC : 20 El : 20 Pro : 08	Courses are made either 2 or 4 credits.

Annexure C:

Course List:

	Subject code and Subject Title	Credit Pattern
Hard Core		
CSTH1	Advanced Data Structures & Algorithms	2:1:1
CSTH2	Multimedia Information System	2:1:1
CSTH3	Pattern Recognition	2:1:1
CSTH4	Image Processing	2:1:1
CSTH5	Probability and Statistics	1:1:0
Soft Core		
CSTS1	Data Compression	2:1:0
CSTS2	Fuzzy Theory	2:1:0
CSTS3	Genetic Algorithms	1:1:1
CSTS4	Neural Networks	2:0:1
CSTS5	Symbolic Data	1:1:1
CSTS6	Graph Theory	1:1:1
CSTS7	Computer Vision	2:1:0
CSTS8	Artificial Intelligence	2:1:0
CSTS9	Video Processing	2:1:0
CSTS10	Data Clustering	2:0:1
Elective		
CSTE1	Biometrics	1:0:1
CSTE2	Rough sets	2:0:0
CSTE3	Medical Signal Processing	2:0:0
CSTE4	Experiments on Distance Measures	0:0:2
CSTE5	Document Analysis and Recognition	2:0:1
CSTE6	Dimensionality Reduction	2:0:1
CSTE7	Image Retrieval	1:0:1
CSTE8	Text Retrieval	1:0:1

CSTE9	Video Retrieval	1:0:1
CSTE10	Experiments in AI (Prerequisite CCTS8)	0:0:2
CSTE11	Decision Support Systems	2:0:0
CSTE12	Advance Course in Computer Graphics	2:0:1
CSTE13	Machine Learning	2:0:1
CSTE14	Simulation	2:1:0
CSTE15	Experiments in Simulation (Prerequisite CCTE14)	0:0:2
CSTE16	Wavelets	1:1:0
CSTE17	Parallel Computing	1:0:1
CSTE18	Robotics	2:1:2
CSTE19	Advanced Topics in Mathematics	2:1:0

Annexure D:

M.Tech (CCT)

	Subject code and Subject Title	Credit Pattern
Hard Core		
CCTH1	Advanced Data Structures and Advanced Algorithms	2:1:1
CCTH2	Advanced Mathematics, Probability and Statistics	3:1:0
CCTH3	Image Processing	2:1:1
CCTH4	Pattern Recognition	2:1:1
Soft Core		
CCTS1	Advanced Computer Graphics	2:1:1
CCTS2	Cloud Computing	3:1:0
CCTS3	Soft Computing	2:1:1
CCTS4	Data Compression	0:1:1
CCTS5	Artificial Intelligence	3:1:0
CCTS6	Symbolic Data	2:1:1
CCTS7	Data Clustering	2:1:1
CCTS8	Fuzzy Sets and Logic	2:1:1
CCTS9	Multimedia Databases	2:1:1
CCTS10	Biometrics	1:0:1
CCTS11	Information Retrieval	2:1:1
Elective		
CCTE1	Logic Programming	0:1:1
CCTE2	Rough Sets	2:0:0
CCTE3	Wavelets	1:1:0
CCTE4	Decision Support System	2:0:0
CCTE5	Graph Theory	2:1:1
CCTE6	Multimedia Retrieval	2:1:1
CCTE7	Machine Learning	2:1:1
CCTE8	Study of Proximity	0:1:1
CCTE9	Medical Signal Processing	1:0:1
CCTE10	Robotics	1:0:1

CCTE11	Parallel Computing	2:0:2
CCTE12	Simulation and Modeling (Prerequisite: CCTH2**)**	2:1:1
CCTE12	Optimization	2:1:1
CCTE13	Cryptography	2:1:1
CCTE14	Advanced Numerical Computing	2:0:2
CCTE15	Logic Programming	0:1:1
CCTE16	Network Security (Prerequisite: CCTE13)	1:1:0
CCTE17	Wireless Computing	3:0:1
CCTE18	Content Management	0:1:1
CCTE19	Symantec Web	1:0:1
CCTE20	Embedded Systems	1:1:0
CCTE21	Virtual Reality	1:1:0
CCTE22	Data Mining	2:1:1

Note:

1. Additional credits earned through soft core can be transferred to elective credits.
2. Depending on the requirement and availability of expertise additional electives may be offered.