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UNIVERSITY OF MYSORE



Estd. 1916

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No.AC.2(S)/401/13-14

Dated: 24-05-2014

NOTIFICATION

Sub: Modification of the Hard core, Soft core, Elective and Open Elective Courses of M.Sc / M.Sc Tech (3 year)

Ref: 1. Proceedings of Faculty of Science & Technology Meeting held on 14-02-2014.
2. Proceedings of the Meeting of Academic Council held on 29-03-2014.

The Board of Studies in **Computer Science (PG)** at its meeting held on 28-11-2013 and 29-11-2013 has resolved to modify of the Hard core, Soft core, Elective and Open Elective Courses of M.Sc/M.Sc Tech (3 year) from the academic year 2014-15.

The Faculty of Science and Technology and the Academic Council at their meetings held on 14-02-2014 and 29-03-2014 respectively approved the above proposals and the same is hereby notified.

The copy of Modified of the Hard core, Soft core, Elective and Open Elective Courses of M.Sc / M.Sc Tech (3 year) is annexed herewith.

J. S. Sampath
REGISTRAR.
University of Mysore
MYSORE.

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 Zoology, MGM.
4. The Deputy/Assistant Registrar (Evaluation), University of Mysore, Mysore.
5. Sri Narasimha Murthy, Statistician, E.B. UOM, Mysore.
6. The Supdt AC.1 & AC.2, A.B., Academic Section / PMEB, UOM., Mysore.
7. The P.A. to the Vice-Chancellor/Registrar/Registrar(Evaluation), UOM., Mysore.
8. The Case Worker, AC.7, Academic Section, University of Mysore, Mysore.
9. The Section Guard File(Supdt.AC.2), A.B., A.C., UOM.
10. The Schedule File.

**Proposed List of Hard Core, Soft Core and Elective course for
M. Sc. (2 Years) / M. Sc. Tech. (3 Years) in Computer Science**

Course Code & Title **Credit Pattern (L: T: P)**

Hard Core Subjects

MSCH1	Discrete Mathematics	3:1:0
MSCH2	Principles of Programming & Problem Solving	2:1:1
MSCH3	Data Structures	2:1:1
MSCH4	Computer Architecture	2:1:1
MSCH5	Algorithmics	2:0:2
MSCH6	System Software	2:1:1
MSCH7	Operating System	3:0:1
MSCH8	Theory of Languages	2:1:0
MSCH9	Data Base Management System	2:1:1
MSCH10	Computer Networks	2:1:1
MSCH11	Computer Graphics	2:1:1
MSCH12	Software Engineering	2:1:1
MSCH13	Object Oriented Analysis and Design	2:2:0

(In the existing scheme, there were 8 hard core courses totaling 28 credits. Now, there are 13 courses totaling 52 credits for three years. Further, each course carries 4 credits)

Soft Core Subjects

MSCS1	Compiler Construction	2:1:1
MSCS2	Graph Theoretic Algorithms	2:1:1
MSCS3	Data Communications	3:1:0
MSCS4	Software Quality Assurance	2:1:1
MSCS5	Multi-Data Analysis	2:1:1
MSCS6	Research Methodology & Documentation	3:1:0
MSCS7	. Net Technology	2:0:2
MSCS8	Fuzzy Theory	3:1:0
MSCS9	Image Processing	3:0:1
MSCS10	Information Retrieval	2:1:1
MSCS11	Pattern Recognition	3:0:1
MSCS12	Probability and Statistics	3:1:0
MSCS13	Artificial Intelligence	3:1:0
MSCS14	JAVA Programming	2:0:2

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MSCS15	Operations Research and Optimization	3:1:0
MSCS16	Simulation and Modeling	3:1:0
MSCS17	Numerical Algorithms	2:0:2
MSCS18	Mobile Communication	3:1:0

(As some of the soft core courses are moved to hard core, we have introduced some more soft core courses. Each course carries 4 credits. The number of credits required to be earned from soft core courses is 16)

Elective Subjects

MSCE1	Communication Skills and Professional Management	3:1:0
MSCE2	Cryptography	3:1:0
MSCE3	Data Analysis	3:0:1
MSCE4	Data Compression	3:0:1
MSCE5	Data Mining	3:1:0
MSCE6	Data Indexing	2:1:1
MSCE7	Advanced Probability & Statistics	3:1:0
MSCE8	Embedded Systems	2:1:1
MSCE9	Advanced Data Structures	2:1:1
MSCE10	Hardware and Networking	2:1:1
MSCE11	Java Programming	2:0:2
MSCE12	Matrix Programming	1:1:2
MSCE13	Medical Imaging	3:0:1
MSCE14	Microprocessor	3:0:1
MSCE15	Multimedia Communication	3:1:0
MSCE16	Network Security	2:1:1
MSCE17	Practicing Software Design	1:1:2
MSCE18	Simulation and Modeling	2:1:1
MSCE19	Software Engineering Case Tools	1:1:2
MSCE20	Software Quality Testing	2:1:1
MSCE21	Semantic Web	2:1:1
MSCE22	System Analysis and Design	3:1:0
MSCE23	Theory of Complexity	3:1:0
MSCE24	Process Automation	2:1:1
MSCE25	Parallel Computing Algorithms	2:1:1
MSCE26	Data Clustering	2:1:1
MSCE27	Advanced Numerical Algorithms	2:1:1
MSCE28	Fundamentals of Control Systems	3:1:0
MSCE29	Computer Forensics	2:1:1
MSCE30	Biometrics	2:0:2

ANNEXURE-1:PG Computer Science

MSCE31	Web Programming	1:1:2
MSCE32	Open Source Resources	1:1:2
MSCE33	Business Intelligence	2:0:2
MSCE34	Distributed Computing	2:1:1

Note : The courses in soft core list not taken as a soft core can be considered as elective subjects.

(Some more courses of current requirement are added. Each course carries 4 credits)

**Minimum Number of credits to be earned for successful completion of the
program (2 years M.Sc. / 3 years M.Sc. Tech.)**

Type of course	Existing		Proposed	
	2 Years	3 Years	2 Years	3 Years
Hard core	19 + 08	28 + 18	44 + 08	52 + 20
Soft core	15	21	08	16
Open Elective	06	08	04	04
Electives	Remaining	Remaining	Remaining	Remaining
Total	76	112	76	112

