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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: Restructuring the Curriculum of MCA programme.

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 restructure of the existing MCA program to fit into CBCS-CAGP pattern of the University of Mysore 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 the restructuring MCA program to fit into CBCS-CAGP pattern is annexed herewith.

J. S. Sampath
REGISTRAR
University of Mysore
MYSORE.
24/5/2014

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.

Adapting of CBCS and CAGP pattern of education of the University of Mysore for MCA program with a lateral entry for BCA / B.Sc. (IT/Computer Science) graduates directly into second year

Preamble:

It is about 8 years since the MCA syllabus has not been changed to match to the current needs of software industries. It is indeed very much essential to have frequent changes in the syllabus particularly for the courses related to Computer Applications / Science / Technology.

In addition, recently the esteemed University of Mysore has thought of adopting a credit based choice based continuous assessment system for Post Graduate studies. In view of this, this revised MCA regulations is to fit into the credit based choice based system.

It is proposed to encourage BCA / B.Sc. (IT or Computer Science) graduates to get admitted to 2nd year of MCA program directly as per the GO No.ED 177 TEC 2012, dated 2nd Aug 2013.

Intake :

As decided by the university from time to time. 20% of the intake shall be for second year lateral entry of BCA / B.Sc (IT or Computer Science) graduates.

The following table presents only the proposed changes in adapting the existing CBCS regulations of the university.

Section of the regulations	Existing	Proposed change	Remark
Eligibility	<p>Admission to MCA courses shall be open for candidates who have passed the Bachelor degree examinations with not less than 50% of the marks in the aggregate of all the years of the Degree examinations. However, in the case of candidates from Karnataka belonging to SC/ST and Category-I, the aggregate percentage of marks in the qualifying examinations shall not be less than 45%. Provided that for admission to MCA, the candidate shall have passed Bachelor Degree with not less than 50% of marks with Mathematics / Statistics / Computer Science / Computer Programming / Computer Application / Business Mathematics / Business Statistics as one of the optional or electives at degree level. Provided further that in respect of candidates who have studied and passed one of the subjects specified in the first proviso in the Pre-university course with 50% of marks in that subject shall also be considered for admission. However, in the case of candidates belonging to SC/ST and Category-I, 45% of marks in that subject shall also be considered for</p>	<p>Admission to MCA courses shall be open for candidates who have passed the Bachelor degree examinations with not less than 50% of the marks in the aggregate of all the years of the Degree examinations, except BCA. However, in the case of candidates from Karnataka belonging to SC/ST and Category-I, the aggregate percentage of marks in the qualifying examinations shall not be less than 45%. Provided that for admission to MCA, the candidate shall have passed Bachelor Degree with not less than 50% of marks with Mathematics / Statistics / Computer Science / Computer Programming / Computer Application / Business Mathematics / Business Statistics as one of the optional or electives at degree level. Provided further that in respect of candidates who have studied and passed one of the subjects specified in the first proviso in the Pre-university course with 50% of marks in that subject shall also be considered for admission. However, in the case of candidates belonging to SC/ST and Category-I, 45% of marks in that subject</p>	<p>A lateral entry for BCA graduates is created. Admission of BCA graduates directly to 2nd year of MCA can be based on an entrance test as conducted for other programs in the University of Mysore.</p>

	admission.	shall also be considered for admission. The BCA graduates with a minimum of 50% marks in aggregate (45% in case of SC/ST/Cat I candidates) are eligible to direct admission to 2 nd year of MCA.	
Course structure	Non credit and choice based	Proposed to adopt L:T:P model as per the CBCS and CAGP of the University.	As per the direction of the University to restructure MCA programme to fit into CBCS pattern.
Evaluation	Continuous assessment. A semester is divided into 3 discrete components identified as C1, C2, C3 with the assessment pattern (15+15+70).	Continuous assessment. A semester is divided into 3 discrete components identified as C1, C2, C3 with the assessment pattern (25+25+50).	
Project Evaluation	--- 11 ----	C1: Periodic progress and progress reports (25%) C2: Results of work and draft report (25%) C3: Final Viva-Voce and evaluation (50%). The report evaluation is for 30% and Viva-Voce examination is for 20%	
Earning credits	Conventional. However, as per the CBCS norms it is 76 credits for 2 years program.	Students have to earn a minimum of 112 credits to get MCA degree with 72 credits in Hard Core, a minimum of 28 credits in SC, and minimum of 4 credits and maximum of 12 credits in Open Elective subjects.	

Scheme of Study

Semester 1

HARD CORE SUBJECTS			
Course Code	Course Title	Credit Pattern	Total Credits
	Essential Mathematics/ Accountancy and Financial Management *	3:1:0	4
	C Programming	3:0:1	4
	Computer Fundamentals and Organization	3:1:0	4
SOFT CORE SUBJECTS (Choose at most 3 Courses)			
Course Code	Course Title	Credit Pattern	Total Credits
	Computer Graphics	2:1:1	4
	Numerical Techniques	3:0:1	4
	Operation Research	3:1:0	4
	System Analysis and Design	3:1:0	4

*The students who have studied Mathematics during their UG course must necessarily take Accountancy and Financial Management subject and students who have studied Accountancy and Financial Management during their UG course must necessarily take Mathematics. However, the students who have studied both the subjects (BCA) can credit for either of the subject depending on their interest.

Semester 2

HARD CORE SUBJECTS			
Course Code	Course Title	Credit Pattern	Total Credits
	Fundamental of Data Structures	3:0:1	4
	System Software and Operating System	3:1:0	4
	Object-Oriented Programming with C++	3:0:1	4
	Database Management Systems	3:0:1	4
SOFT CORE SUBJECTS (Choose at most 2 Courses)			
Course Code	Course Title	Credit Pattern	Total Credits
	Java Programming	2:0:2	4
	Data Communication and Networks	3:1:0	4
	Computer Architecture	3:1:0	4

Semester 3

HARD CORE SUBJECTS			
Course Code	Course Title	Credit Pattern	Total Credits
	Theory of languages and Automata	3:1:0	4
	Web Programming	2:0:2	4
	Information System Management	3:1:0	4
SOFT CORE SUBJECTS (Choose at most 3 Courses)			
Course Code	Course Title	Credit Pattern	Total Credits
	Probability and Statistics	3:1:0	4
	Mobile Communication	3:1:0	4
	E-commerce and E-governance	3:1:0	4
	Open Elective		4

Semester 4

HARD CORE SUBJECTS			
Course Code	Course Title	Credit Pattern	Total Credits
	Linux Programming	2:1:1	4
	Information Retrieval	2:1:1	4
	Advanced Software Engineering	3:1:0	4
SOFT CORE SUBJECTS (Choose at most 3 Courses)			
Course Code	Course Title	Credit Pattern	Total Credits
	Image Processing	3:0:1	4
	Graph Theory	3:1:0	4
	Cryptography and Network Security	3:1:0	4
	Distributed Computing	3:1:0	4
	Open Elective		4

Semester 5

Course Code	Course Title	Credit Pattern	Total Credits
	Analysis and Design of Algorithms	2:1:1	4
	.Net with C#	2:1:1	4
SOFT CORE SUBJECTS (Choose at most 4 Courses)			
Course Code	Course Title	Credit Pattern	Total Credits
	Pattern Recognition	3:0:1	4
	Artificial Intelligence	3:1:0	4
	Data Mining and Data Warehousing	2:1:1	4
	Computational Mathematics	3:1:0	4
	Compiler Construction	2:1:1	4
	Communication Skills and Professional Management	3:1:0	
	Simulation and Modeling	2:1:1	
	Open Elective		

Semester 6

HARD CORE SUBJECTS			
Course Code	Course Title	Credit Pattern	Total Credits
	Dissertation Work	2:2:8	12

Note: Students must acquire minimum of 4 credits and maximum of 12 credits by registering the courses offered by other Departments of the University in any semester (2/3/4) depending on their interest and convenience as open elective.