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UNIVERSITY OF MYSORE

Estd. 1916

VISHWAVIDYANILAYA KARYA SOUDHA
CRAWFORD HALL, POST BOX NO. 406
MYSORE-570 005

No.AC.2(S)/401/13-14 Dated: 24-05-2014

NOTIFICATION

Sub: Introduction of M.Phil in Computer Science and Technology from the academic year 2014-15.

Ref: 1. Proceedings of Faculty of Science & Technology Meeting held on14-02-2014.
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 introduce M.Phil in Computer Science and Technology with emphasis to Cognition and Recognition under the ambience of Higher Performance Computing. This is in response to UPE grant. The Regulation is as per the common Regulation of University of Mysore for M.Phil.

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 M.Phil in Computer Science and Technology curriculum is annexed herewith.

for S. Sampath
REGISTRAR. 26/5/2014
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.

REGULATIONS GOVERNING THE MASTER OF PHILOSOPHY (M. Phil.) in COMPUTER SCIENCE

PREAMBLE:

M. Phil. in Computer Science with an emphasis on Machine Learning under the ambience of High Performance Computing. This is in response to University for Potential Excellence Grant. Since there are many students who wish to have their second Masters degree in Computer Science, our department has decided to introduce the M. Phil. in Computer Science. This is purely on self financing. The common regulations of University of Mysore shall be adhered to. Since our department has been following a full-fledged CBCS, this M. Phil. also is designed under the same pattern.

TITLE AND COMMENCEMENT

1. These Regulations shall be called the Regulations for M. Phil. in Computer Science of University of Mysore.

ELIGIBILITY CRITERIA

Candidates who have passed their post-graduate degree examination with at least 55 per cent (50 per cent in case of SC/ST candidates) of marks or equivalent grade in cognate subject/s from the University of Mysore or any other recognised University are eligible to apply.

ENTRANCE EXAMINATION AND ADMISSION

1. There shall be an entrance examination for M.Phil.
2. The conduction of entrance examination, the preparation of merit list and admission will be as per University norms.

DURATION OF THE COURSE

As per university norms.

INTAKE : As decided by the department council from time to time.

ATTENDANCE

As per university norms.

COURSE CONTENT

The course consists of two semesters. Students study relevant papers during the first semester and in the second semester they have to work on their dissertation as shown in Table-1. Table-1 also shows the weightages for continuous assessment components-C1 C2 and C3; and for semester-end assessment component C4 as being followed in the department for M.Sc Tech and M.Tech programs..

Table-1 Course and Assessment Details

Semester	Paper	L:T:P	Credit Value (V)
I Semester	Paper-1 Research Methodology (Hard Core)	2:1:2	5
	Paper-2 Advanced Computational Mathematics (Hard Core)	3:1:1	5
	Paper 3 Soft Core 1	-	5
	Paper 4 Soft Core 2	-	5
II Semester (12 Credit Hours)	Dissertation work	0:6:6	12
	Total		32

The dissertation shall be submitted only after the successful completion of all the papers in the first semester. The candidates shall submit the dissertation within the last working day of the second semester.

Candidates who are unable to clear the papers of the first semester in the first attempt shall be allowed to take up **Make-Up** examination which will be conducted after 30 days and within 60 days of the announcement of results of first semester. **The make-up examination will be only for C4 component.** If the candidate fails even in the make-up examination, then the candidate is permitted to re-register for M. Phil. Only one such re-registration is permitted as per the University norm of double the duration.

DISSERTATION GUIDANCE

As per University norms.

EVALUATION

1. The faculty who offers a course / paper is wholly responsible for evaluation of students in that paper. Grading of students is based on relative grading. Each individual teacher can follow his / her own mode of evaluation of students in all 4 components, but it should be

brought to the notice of students, well in advance, before course starts after deliberating in the department council.

2. An external examiner along, with the concerned guide, will conduct the viva-voce examination of the dissertation. However the dissertation report will be evaluated independently by an external examiner as decided by the department council.

GRADING AND CLASSIFICATION

As followed for M. Sc. Tech. and M. Tech. programmes in the department.

TIME LIMIT FOR COMPLETION OF THE COURSE

Candidates taking up M. Phil. Course shall complete the course within TWO academic years from the date of their admission, which implies only one re-registration is permitted. However, such unsuccessful candidates can apply for fresh admission.

MISCELLANEOUS

Any other matter which is not envisaged above shall be resolved by the Vice Chancellor.

Content :

List of Soft Core (SC) subjects:

1. Machine Learning
2. Pattern Recognition and Neural Networks
3. Digital Signal Processing
4. Digital Image Processing
5. Document Analysis and Recognition
6. Computer Vision
7. Artificial Intelligence
8. Data Clustering
9. Multimedia Systems
10. Multimedia data Archival and Retrieval Systems
11. Parallel Computing and Algorithms
12. Soft Computing Strategies
13. Game Theory
14. Information Retrieval
15. Data Mining and Warehousing