KANNUR UNIVERSITY

(Abstract)

M. Phil Programme in Computer Science Under CCSS - Department of Information Technology, Mangattuparamba - Regulation, Curricula and Scheme of Examination - Implemented w.e.f. 2013 admission - Orders Issued

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Academic Branch

No. Acad/C4/7329/2013   Dtd. KU Campus 03/07/2013

Read: - 1.   U.O No. Acad C3/2049/2009 dated 05/05/2012

       2.   Letter from the HoD Information Technology dtd 06/06/2013

ORDER

1. The Regulation, for M Phil Programmes under CCSS was implemented in this university w.e.f. 2012 admission as per paper read (1) above

2. The HoD, Information Technology, of this University vide paper read (2) above has forwarded the Regulation, Curricula and Scheme of Examination for MPhil Programme in Computer Science under CCSS for implementation w.e.f. 2013 admission

3. After considering the matter in detail and in exercise of the powers of the Academic Council conferred under section 11(1) of the Kannur University Act 1996 and all other enabling provisions read together with the Vice Chancellor has accorded sanction to implement the Regulation, Curricula and Scheme of Examination for MPhil Programme in Computer Science under CCSS with effect from 2013 Admission subject to report to the Academic Council.

4. The Regulation, Curricula and Scheme of Examination for MPhil Programme in Computer Science under CCSS are appended

5. Orders are issued accordingly

Sd/-

Deputy Registrar (Acad)
For Registrar

To

     The HoD Information Technology

Copy to

     The examination Branch (Through PA to CE)
     PS to VC/ PA to PVC PA to R
     DR/ AR1 Academic SF/ DF/ FC

Forwarded/By Order

SECTION OFFICER

Kannur University

M. Phil. (Computer Science) Programme
(Under CCSS)
Regulations, Curricula and Scheme of Evaluation
(With Effect from 2013 admission)

DEPARTMENT OF INFROAMTION TECHNOLOGY, KANNUR UNIVERSITY

Kannur University

Regulations for Master of Philosophy (M. Phil) programme in Computer Science
Under Choice Based Credit Semester System (CCSS)
Effective from 2013 Admission

1. This regulation shall be called Regulation for M Phil (Computer Science) programme under CCSS - 2013.

2. **Scope, Application and Commencement**

   The Regulation provided herein shall apply to M Phil Programme in Computer Science come into force with effect from the admission commencing from 2013.

3. **Eligibility** : Masters degree in Computer Science / Computer Application / Information Technology of Kannur University or equivalent with 55% marks (or equivalent grade). Relaxation will be given for SC/ST, OBC and teacher candidates as per existing Kannur University norms applicable to M Phil course.

4. **Selection**
   Selection is based on the following :

Criteria	Weightage
a. Marks secured in the qualifying examination	: 40%
b. Entrance examination	: 60%

   4.1 Entrance examination shall be objective type of 2 hours duration covering the following topics:

   a. Data structures, Algorithms, Database Management Systems, Operating systems, Computer Networks and network programming, Computer Graphics, Multimedia, Discrete Mathematics, Software Engineering, Computer Organization, Microprocessors, Automata theory, system programming and compiler design, Graph theory and Artificial Intelligence. (60 questions, 120 Marks)

   b. Research Aptitude (40 questions, 80 Marks)

5. **Intake :**
   Total number of seats shall be **six**. Reservation for different categories shall be as per University norms. Additional seats shall be created for Candidates with fellowship (such as FIP).

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6. Duration of the Programme:

Duration of the course is oneacademic year divided into two semesters. There should be at least 90 teaching days per semester. The M Phil .Programme shall be completed within a **minimum of two and a maximum of four** consecutive semesters. If a student does not pass a course within the regular schedule, he/she shall reappear for the course examination along with the subsequent batch.

7. Faculty : M Phil Programme in Computer Science comes under the Faculty of Technology.

8.Management of the Course:

A department level M Phil committee (**MC**) shall be formed for managing the course. The committee shall consist of regular teachers of the department having Ph D/ M Phil. Head of the department shall be the chairman of the committee.

The responsibilities of the MC includes the following:

a. Formulate course structure and approve syllabus.

b. Make recommendations on number of seats.

c. Assign subjects to faculty members.

d. Assign supervisor.

e. Monitor the programme on a regular basis.

f. Recommend panel of external examiners for the evaluation of dissertations.

g. Finalize semester results..

i Recommend panel of visiting faculty.

9. Programme Structure:

Semester	Course Code	Course Title	Scheme of Evaluation			Credit
			Continuous Assessment	End Semester Assessment	Total	
I	MPCS C11	Research Methodology	50	50	100	5
	MPCS C12	Pattern Recognition and Soft computing	50	50	100	5
	MPCS E13	Elective I	50	50	100	5
	MPCS E14	Elective II	50	50	100	5
		Total			400	20
II	MPCS C21	Dissertation / Viva Voce	75	225	300	20
		Total			300	20
		Grand Total			700	40

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Elective I : Foundation course in the area of dissertation.
Elective II : Advanced course in the area of dissertation.

10. Credit Requirements:

The minimum credit requirement for the successful completion of M Phil Computer Science Programmeis 40.

11. Academic Staff :

i.   Course coordinators / supervisors should be a regular faculty of the department with PhD.

ii.   A student will be allocated aguide/supervisor at the beginning of the first semester. The guide shall assist the student in selecting topic for dissertationand in selecting the elective courses.

12.Theory courses

a. **Corecourses** : Each course will be assigned to a faculty member who shall act as a course coordinator. Detailed syllabus for each course shall be prepared by the course coordinator and is to be the approved by the **MC**. The learning activities for the above courses shall include lectures by the internal or external faculty, directed reading, term paper presentation, assignments, lab assignment, case studies, seminars etc.

b. Elective papers : Elective papers for a student shall be decided by the Supervising teacher based on his/her dissertation topic with the approval of the MC. Detailed syllabus for the course shall be prepared by the Supervising teacher. The Supervising teacher shall frame the learning activities which may include lectures by internal / external experts, directed reading, lab and theory assignments, case studies, seminar etc.

13. **Scheme of evaluation :**The evaluation scheme for the core courses and Electives shall contain two parts : i. Continuous assessment (50%) and ii. End Semester Assessment (50%). For dissertation and viva. CA and ESA shall have weightage 25% and 75% respectively.

14. Continuous Assessment
    The continuous assessment for the core/elective courses shall have four components:

i.	Tests (Minimum 2)	: 20 Marks
ii.	Assignment / Lab Assignment	: 10 Marks
iii.	Case study / Viva	: 10 Marks
iv.	Seminar / Research paper presentation	: 10 marks

For each course, the faculty in charge of the course shall prepare scheme of internal evaluation and the same is to be made available to the students before the commencement of the semester.

For Dissertation, CA has the following components:

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i.	Research paper presentations.	: 20
ii.	Seminar	: 15
iii.	Presentation of work carried out	: 40

15. End Semester Assessment (ESA)

i. The ESA for the first semester will be conducted by the Department. The duration of theory examinations will be three hours. Each question paper would be set for 100 marks. The grade will be calculated based on the weighted average of CA and ESA as given in the programme structure. The pattern of question shall be decided by the course coordinator, with the approval of the MC.

ii. The Head of the Department or a faculty nominated by him, will be the Chairman, BOE. He/she shall be responsible for preparing examination schedule, conduct of examination, tabulation of CA and ESA marks, preparation of grade sheet and arrangements for external evaluation.

iii. The course coordinator of each course will prepare three sets of questions of which one will be selected by an external examiner after due scrutiny. Alternatively, the course coordinator shall prepare a panel of examiners (minimum 3) for setting questions. Double valuation will be followed for all theory papers. MCshall select External Examiner for the valuation (and setting if required) of each course from a panel of examiners (minimum three) submitted by the respective course coordinator.

ii. The ESA for the second semester will be conducted by the controller of examinations. Grade cards will be issued as per the norms followed in M Philprogrammes under CCSS/CSS.

16. Attendance: The minimum attendance required for the completion of a semester is 75%. Those who secure the minimum attendance in a semester alone will be allowed to register for the End Semester Examination. Condonation shall be granted by the Vice-Chancellor subjected to the existing Kannur University norms applicable to M Phil/ PG programmes. A student who is not eligible for condonation shall repeat the course with the subsequent batch.

17. **Dissertation:** Dissertation will beprepared under the supervision of the guide assigned to the student The supervising teacher shall continuously monitor the progress of the student. The supervisor shall assign tasks such as presentation of work/seminars and specific assignments in the area of study. On completion of the research work, the student shall present the work before the MC. Based on the recommendation of the committee the student shallbe permitted to prepare the dissertation incorporating the suggestions of the committee, strictly under the supervision of the supervising teacher. The report shall be prepared as per the thesis manual which will be made available to the student at the commencement of the semester.

A student shall submit the thesis at the end of the second semester, on or before the date fixed by the Controller of Examinations. For each candidate, the supervising teacher shall prepare a panel of four examiners and submit the same to the HOD. The HOD shall forward a consolidated

list of candidates, title and area of dissertation and panel of examiners to the Controller of examinations. The CE shall nominate external examiner for each candidate.

Evaluation of dissertation and viva voce will be carried out by a board of three examiners: HOD (Chairman), the supervising teacher and an external examiner. HOD shall arrange for the evaluation and viva. The detailed scheme of evaluation and weightage for different components shall be decided by the MC. Due weightage shall be given to candidates who publish their work (or accepted for publication) in national / international Journals / Conferences.

If a candidate fail in the evaluation process, he/she has to resubmit a fresh / modified thesis and appear for fresh evaluation after a minimum period of one semester.

18. **Extension for the submission of Dissertation**: An extension of six months may be given for the submission of dissertation by the HOD (if recommended by the supervisor). Further, extension of six months shall be granted by the Vice Chancellor on recommendation of the supervisor and forwarded by the HOD. For such extensions, progressive extension fee fixed by the University from time to time may be collected. However, total period of the programme shall not exceed 2 years.

19. **Grading** : An alphabetical grading system shall be adopted for the assessment of student's performance in a course. The following table gives the range of marks, grade points and the alphabetical grade.

Rangeofmarks%	Grade Points (With single decimal)	Alphabeticalgrade
85–100	8.5 and above	A+
75–84	7.5 to <8.5	A
65 - 74	6.5 to < 7.5	B+
55–64	5.5 to <6.5	B
45 -54	4.5 to <5.5	C
<45	Below 4.5	F

➢ The performance of a scholar in each course is indicated by the Grade Point (GP), Grade and Credit Points (CP),

➢ The performance of a scholar at the end of each semester is indicated by Grade Point Average (GPA).

$$GPA = \frac{Sum\ of\ (Grade\ point\ in\ a\ course\ multiplied\ by\ its\ credit}{Sum\ of\ credits\ of\ courses}$$

➢ The overall performance of a student is indicated by Cumulative Grade Point Average (CGPA). CGPA is calculated using the formula for GPA, but by taking all courses in first and second semesters.

20. **Successful completion of the Programme :**

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> *Appearance for Continuous Evaluation (CE) and End Semester Assessment (ESA) are compulsory and no Grade shall be awarded if she /he is absent for CS/ESA or both.*
> For the successful completion of a theory course, a minimum of C Grade is required.
> For the successful completion of Dissertation, a minimum of B Grade is required.
> For the successful completion of asemester/ the Programme, a minimum of B grade (based on GPA/CGPA) is required.
> Based on CGPAoverall letter gradeof the Scholar shallbe in thefollowing way.

CGPA	Overalllettergrade
8.5andabove	A+
7.5andabovebutlessthan8.5	A
6.5andabovebutlessthan7.5	B+
5.5andabovebutlessthan6.5	B

21. **Illustration :**

Semester I

Course Code	Course Title	Mark Secured			Grade point	Grade	Credit Earned
		Continuous Assessment	End Semester Assessment	Total			
		50	50	100			
MPCS C11	Research Methodology	36	28	64	6.4	B	5
MPCS C12	Pattern Recognition and Soft computing	40	35	75	7.5	A	5
MPCS E13	Elective I	26	23	49	4.9	C	5
MPCS E14	Elective II	46	22	68	6.8	B+	5

GPA for first Semester $= (6.4 \times 5 + 7.5 \times 5 + 4.9 \times 5 + 6.8 \times 5) / 20 = 6.4$

Grade for first Semester : B

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Semester II

Course Code	Course Title	Mark Secured			Grade point	Grade	Credit Earned
		Continuous Assessment	End Semester Assessment	Total			
		75	225	300			
MPCS C11	Dissertation / viva Voce	60	140	200	6.7	B+	20

GPA for Second Semester : 6.7
Grade for Second Semester : B+

CGPA (for the Programme) = (6.4 x 5 + 7.5 x 5 + 4.9 x 5 + 6.8 x 5 + 6.7 x 20) / 40 = 6.6
Grade for the Programme : B+

22.Supplementary Examination (Theory courses) :If a candidate fails in a theorycourse he/she shall appear for supplementary examination. If acandidatefails to secure minimum GPA in the first semester, he/she shall reappear for one or more courses to improve his GPA. Supplementary examination shall be conducted along with the regular examination of the next batch.

23. Transitory Provision

Notwithstanding anything contained in this regulation, the Vice-Chancellor shall, for a period of 2 years from the date of coming into force of this regulation, have the power to provide by order modifications as may be necessary.

24. Removal of difficulties

If any difficulty arises or any inconsistency between the existing common regulation for M Phil programme wef 2012 to this regulations in the application, the common regulation shall prevail.

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