

  
**TUMKUR UNIVERSITY**

Viswavidyanilaya Karyalaya, University Constituent College Campus, B.H. Road, Tumkur- 572 103

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No. TU: AC : 2011-12-124

Date : 08.04.2011

**NOTIFICATION**

**Sub :** Regulations governing 13 various M.Sc Programmes in Tumkur University.

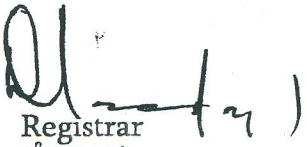
**Ref :** 1. Government Letter No. ED:126:UTT:2010 Dated : 31.03.2011.

2. Approval of the Vice-Chancellor Dated : 07.04.2011

\* \* \*

The Regulations governing the following 13 M.Sc Programmes in Tumkur University assented by His Excellency the Chancellor on 16.03.2011 as communicated in the above referred letter is hereby notified for implementation.

1. M.Sc. (RF Communication),
2. M.Sc. (Information Science),
3. M.Sc. (VLSI & Embedded Systems),
4. M.Sc. (Electronics), 1
5. M.Sc. (Digital Systems),
6. M.Sc. (Communication Systems),
7. M.Sc. (Computer Networking).
8. M.Sc.(Software System),
9. M.Sc. (Bio-medical Science).
- 10.M.Sc. (Advanced Computer Technology),
- 11.M.Sc. (Cyber Forensic Science),
- 12.M.Sc. (Geoinformatics),
- 13.M.Sc. (Operational Research and Statistics)

  
Registrar  
8/4/11

**Copy to:**

1. The Principal Secretary to the Governor, Rajbhavan, Bangalore.
2. The Principal Secretary to the Government, Education Department (Higher Education), M.S. Building, Bangalore.
3. The Chairman, Post Graduation Departments / P.G. Colleges, Tumkur University, Tumkur.
4. The Principals of all affiliated colleges / Constituent Colleges of Tumkur University, Tumkur.
5. The Registrar (Evaluation), Tumkur University, Tumkur.
6. The Deputy Registrars, Tumkur University, Tumkur.
7. The Assistant Registrars, Tumkur University, Tumkur.
8. The P.S. to Vice-Chancellor, Tumkur University, Tumkur.
9. Office Copy.

ಕರ್ನಾಟಕ ಸರ್ಕಾರ

ಕ್ರಮಾಂಕ: ಇಡಿ 126 ಯುಟಿಟಿ 2010

ಕರ್ನಾಟಕ ಸರ್ಕಾರದ ಸಚಿವಾಲಯ,  
ಬಹುಮಹಡಿ ಕಟ್ಟಡ,  
ಬೆಂಗಳೂರು, ದಿನಾಂಕ: 31-3-2011

ಇಂದ

ಸರ್ಕಾರದ ಪ್ರಧಾನ ಕಾರ್ಯದರ್ಶಿ,  
ಉನ್ನತ ಶಿಕ್ಷಣ ಇಲಾಖೆ,  
ಬೆಂಗಳೂರು - 560 001.

ಇವರಿಗೆ

ಕುಲಸಚಿವರು,  
ತುಮಕೂರು ವಿಶ್ವವಿದ್ಯಾಲಯ,  
ತುಮಕೂರು.

ಮಾನ್ಯರೆ,

ವಿಷಯ:- Regulations governing 13 various M.Sc. Programmes in  
Tumkur University.

ಉಲ್ಲೇಖ:- ತಮ್ಮ ಪತ್ರ ಸಂಖ್ಯೆ:ತುವಿ/ಶೈಕ್ಷಣಿಕ/2010-11/2061 ದಿ: 14-12-2010.

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ಮೇಲ್ಕಂಡ ವಿಷಯಕ್ಕೆ ಸಂಬಂಧಿಸಿದಂತೆ, ಘನತೆವೆತ್ತ ಕುಲಾಧಿಪತಿಗಳು ದಿನಾಂಕ: 16-3-2011  
ರಂದು Regulations governing 13 various M.Sc. Programmes in Tumkur  
University ಎಂಬ ವಿನಿಯಮಗಳಿಗೆ ಅನುಮೋದನೆ ನೀಡಿರುತ್ತಾರೆಂದು ತಿಳಿಸಲು ನಿರ್ದೇಶಿತನಾಗಿದ್ದೇನೆ.  
ಅನುಮೋದಿತ ವಿನಿಯಮದ ಪ್ರತಿಯನ್ನು ಇದರೊಂದಿಗೆ ಲಗತ್ತಿಸಿದೆ.

ತಮ್ಮ ನಂಬುಗೆಯ,

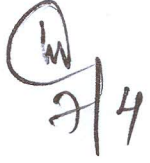


(ಯು.ಬಿ. ಉಳವಿ) 3/3

ಸರ್ಕಾರದ ಅಧೀನ ಕಾರ್ಯದರ್ಶಿ,  
ಉನ್ನತ ಶಿಕ್ಷಣ ಇಲಾಖೆ (ವಿಶ್ವವಿದ್ಯಾನಿಲಯಗಳು)



DR(Acc)



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TUMKUR UNIVERSITY

REGULATIONS GOVERNING THE M.Sc PROGRAMME  
(Framed Under Section 44 of KSU Act)

**TITLE:** These Regulations shall be called Tumkur University Regulations Governing M.Sc. PROGRAMME

**COMMENCEMENT:** These Regulations shall come in to force from the Academic Year 2010-11 subject to the assent of the Chancellor.

**DEFINITION:**

1. University means Tumkur University.
2. M.Sc. Programme means courses started under these Regulations.
3. Student's means students admitted to any of the M.Sc. Programmes under this Regulation.
4. Fee means fee prescribed by the University for the Programmes offered under this Regulation.

**1.0 COURSES OFFERED AND DURATION OF EACH COURSE :**

**1.1 Faculty of Science and technology : Master of Science (M.Sc.):**

1. R.F. Communications (4 Semester / 2 Years)
2. Information Science (4 Semester / 2 Years)
3. VLSI and Embedded System (4 Semester / 2 Years)
4. Electronics (4 Semester / 2 Years)
5. Digital Systems (4 Semester / 2 Years)
6. Communication Systems (4 Semester / 2 Years)
7. Computer Networking (4 Semester / 2 Years)
8. Software System (4 Semester / 2 Years)
9. Bio-Medical Science (4 Semester / 2 Years)
10. Advanced Computer Technology (4 Semester / 2 Years)
11. Cyber Forensic Science (4 Semester / 2 Years)
12. Geo Informatics (4 Semester / 2 Years) \*\*
13. Operational Research and Statistics (4 Semester / 2 Years)\*\*\*

**Note:**

1. Duration of each Programme is as indicated in the parenthesis against that Programme.
2. Each semester shall extend over a minimum period of Eighteen Weeks including the duration of the examination.

**2.0 ELIGIBILITY FOR ADMISSION :**

**2.1 Candidates possessing following degrees:**

- B.Sc. with Computer Science, Mathematics, Physics, Electronics background
- BE with Electrical Sciences/IT related courses/Civil/Mechanical/Environmental\*\*
- B.C.A (Graduate are also eligible for M.Sc. Information Science & Computer networking)
- B.B.M (Graduate are also eligible for M.Sc. Operational Research and Statistics) \*\*\*



### 3.0 SCHEME OF INSTRUCTION :

- 3.1 In each semester there will normally be six papers, including one or more practicals (in courses involving practicals).
- 3.2 If a Department offers a Dissertation / Project, it shall be in lieu of paper. Dissertation / Project shall be offered during the Fourth semester.
- 3.3 In subjects involving field work / project work (for 50 marks), the project work / field work shall be in lieu of one practical component of 50 marks.
- 3.4 Hours of instruction (contact hours) per week.
- a) Subjects with practicals : 25 to 30 hours.
- b) Subjects without practicals ; 20 to 25 hours.

### 4.0 ATTENDANCE :

- 4.1 Each semester shall be taken as a unit for purpose of calculating attendance and a student shall be considered to have put in the required attendance for the semester, if he has attended not less than 75% of the number of working periods (lectures, seminars and practicals taken together) during each semester.
- 4.2 A candidate, who does not satisfy the requirement of attendance in a semester, shall rejoin the same semester.
- 4.3 A candidate, who fails to satisfy the requirement of attendance in a semester, shall rejoin the same semester.

### 5.0 MEDIUM OF INSTRUCTION :

- 5.1 The medium of instruction shall be English.
- 5.2 In the faculties of Arts / Commerce / Education / Law a candidate may be permitted to write the examination either in English or in Kannada. However, this clause is not applicable to languages.
- 5.3 In the faculty of Science, for specific subjects like Geography and Psychology (which fall under the Arts faculty at the UG level), a candidate may be permitted to write the examination either in English or in Kannada.

### 6.0 APPEARANCE FOR THE EXAMINATION :

- 6.1 A candidate shall apply for all the papers of a semester when he appears for the examination of that semester for the first time.
- 6.2 For Repeaters, the regulation will be as per 10.0.

  
Registrar  
Tumkur University  
Tumkur

  
Vice Chancellor  
Tumkur University  
Tumkur

## 6.0 APPEARANCE FOR THE EXAMINATION :

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6.2 For Repeaters, the regulation will be as per 10.0.

## 7.0 SCHEME OF EXAMINATION :

### THEORY AND INTERNAL ASSESSMENT:

7.1 There shall be a University examination at the end of each semester.

7.2 The details of the scheme of examination are as indicated below :

Sl No	Course	Duration	No. of papers per semester as marks including Theory, Seminars, Practicals, & Project				Max. Marks All Semesters
	M.Sc		I Sem	II Sem	III Sem	IV Sem	
1.	R.F. Communications	4 sem / 2 yrs.	6 Papers 600 Marks	6 Papers 600 Marks	4 Papers 400 Marks	Project Viva 200Marks	1800
2.	Information Science	4 sem / 2 yrs.	6 Papers 600 Marks	6 Papers 600 Marks	4 Papers 400 Marks	Project Viva 200Marks	1800
3.	VLSI and Embedded System	4 sem / 2 yrs.	6 Papers 600 Marks	6 Papers 600 Marks	4 Papers 400 Marks	Project Viva 200Marks	1800
4.	Electronics	4 sem / 2 yrs	6 Papers 600 Marks	6 Papers 600 Marks	4 Papers 400 Marks	Project Viva 200Marks	1800
5.	Digital Systems	4 sem / 2 yrs.	6 Papers 600 Marks	6 Papers 600 Marks	4 Papers 400 Marks	Project Viva 200Marks	1800
6.	Communication Systems	4 sem / 2 yrs.	6 Papers 600 Marks	6 Papers 600 Marks	4 Papers 400 Marks	Project Viva 200Marks	1800
7.	Computer Networks	4 sem / 2 yrs	6 Papers 600 Marks	6 Papers 600 Marks	4 Papers 400 Marks	Project Viva 200Marks	1800
8.	Software System	4 sem / 2 yrs	6 Papers 600 Marks	6 Papers 600 Marks	4 Papers 400 Marks	Project Viva 200Marks	1800
9.	Bio-Medical Science	4 sem / 2 yrs	6 Papers 600 Marks	6 Papers 600 Marks	4 Papers 400 Marks	Project Viva 200Marks	1800
10.	Advanced Computer Technology	4 sem / 2 yrs	6 Papers 600 Marks	6 Papers 600 Marks	4 Papers 400 Marks	Project Viva 200Marks	1800
11.	Cyber Forensic Science	4 sem / 2 yrs	6 Papers 600 Marks	6 Papers 600 Marks	4 Papers 400 Marks	Project Viva 200Marks	1800
12.	Geo Informatics	4 sem / 2 yrs	6 Papers 600 Marks	6 Papers 600 Marks	4 Papers 400 Marks	Project Viva 200Marks	1800
13.	Operational Research and Statistics	4 sem / 2 yrs	6 Papers 600 Marks	6 Papers 600 Marks	4 Papers 400 Marks	Project Viva 200Marks	1800



**MSc- (Scheme of Examination)**

**FIRST SEMESTER**

PAPER Code	NAME OF THE SUBJECT	HRS / Week	EXAM IN HRS	MARKS FOR		
				IA	EXAM	TOTAL
1.1	Paper 1.1	4	3	20	80	100
1.2	Paper 1.2	4	3	20	80	100
1.3	Paper 1.3	4	3	20	80	100
1.4	Paper 1.4	4	3	20	80	100
1.5	Elective Paper 1.5	4	3	20	80	100
1.6	Lab Paper 1.6	3	3	20	80	100
<b>TOTAL:</b>		23	18	120	480	600

**SECOND SEMESTER**

PAPER	NAME OF THE SUBJECT	HRS / Week	EXAM IN HRS	MARKS FOR		
				IA	EXAM	TOTAL
2.1	Paper 2.1	4	3	20	80	100
2.2	Paper 2.2	4	3	20	80	100
2.3	Paper 2.3	4	3	20	80	100
2.4	Paper 2.4	4	3	20	80	100
2.5	Paper 2.5	4	3	20	80	100
2.6	Elective Paper 2.6	4	3	20	80	100
<b>TOTAL:</b>		24	18	120	480	600


**THIRD SEMESTER**

PAPER	NAME OF THE SUBJECT	HRS / Week	EXAM IN HRS	MARKS FOR		
				IA	EXAM	TOTAL
3.1	Paper 3.1	4	3	20	80	100
3.2	Paper 3.2	4	3	20	80	100
3.3	Elective Paper 3.3	4	3	20	80	100
	Seminar – I Paper 3.4		1	50	-	50
	Seminar – II Paper 3.5		1	50	-	50
<b>TOTAL:</b>				160	240	400

**FOURTH SEMESTER**

PAPER	NAME OF THE SUBJECT	DURATION OF EXAM IN HOURS	MARKS FOR IA	EXAM	TOTAL
	PROJECT WORK AND VIVA		100	100	200
<b>TOTAL:</b>			100	100	200

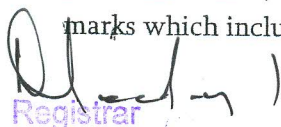
  
 Registrar  
 Tumkur University  
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 Vice Chancellor  
 Tumkur University  
 Tumkur

- 7.3 Each semester shall normally have five papers and each shall be for 100 marks.
- 7.4 (i) The composition of theory / practical and internal assessment marks for each paper shall be 80 and 20 respectively.  
(ii) Duration of examination per theory paper of 80 marks shall be 3 hours and for theory paper of 40 marks it shall be 90 minutes.
- 7.5 Every theory question paper shall ordinarily consist of two / three sections, developed to test conceptual skills, understanding skills, comprehension, articulation and application skills of the candidates.
- 7.6 (i) In case of theory papers, the internal assessment shall be for 20 marks, covering continuous evaluation determined by tests, Attendance, Seminar, Assignments and others, as decided by the concerned BOS from time to time.  
(ii) In case of practical papers, the concerned BOS shall decide the manner of internal assessment.  
(iii) In the first week of each semester, the Department shall notify the scheme of internal assessment components.  
(iv) Atleast one week prior to the last working day of each semester, the internal assessment marks secured by the candidates shall be displayed on the notice board.  
(v) The Departmental Council may decide to hold a separate test / seminar to candidates who absent themselves for the above, only if the council is convinced that the said absence of the candidate is on valid grounds. However, the Council will permit the candidate to avail this provisions only within the duration of that semester.  
(vi) The statement of internal assessment shall be sent to the Registrar (Evaluation), prior to the commencement of examinations of that particular semester.

#### PRACTICALS :

- 7.7 There may be one or more practicals in every semester depending on the nature of the subject.
- 7.8 One practical paper shall be in lieu of a theory paper.
- 7.9 (i) Every practical paper shall carry 100 marks with the break up of two units. Each unit shall have 50 marks or one unit shall have 50 marks and the other 40 marks for practicals ; 10 marks shall be for class records wherever it is compulsory.  
(ii) In case of practical examination, the candidates shall be assessed on the basis of  
(a) Knowledge of relevant process (b) skills and operations involved  
(c) results / products including calculation and reporting.
- 7.10 For Field work / Project work / Dissertation, the evaluation shall be for 50 marks which includes marks for Viva Voce examination.

  
Registrar

  
Vice Chancellor  
Tumkur University  
Tumkur



## 8.0 BOARD OF EXAMINERS AND SCHEME OF VALUATION :

- 8.1 There shall be a Board of Examiners for scrutinizing and approving the question papers and scheme of valuation.
- 8.2 Atleast 50% of the examiners appointed for setting of question papers and valuation work in each semester shall be external.
- 8.3 There shall be double valuation for all theory papers, dissertation / Project / Field work papers. The average of the marks awarded by the internal and external examiners shall be taken as the final marks for that particular paper.
- 8.4 In case there is a difference of more than 20 marks in the two valuations, the script must be valued by a third examiner who figures in the approved panel of examiners but who has not been a valuer in the first or second valuation and his assessment will be final.
- 8.5 Challenge Valuation :

After declaration of the results of the post-graduate examination, a candidate who feels that his answer script has been valued unfairly can, after remitting a fee of Rs. 1,000/- per script, request the Registrar (Evaluation) for a fresh valuation of his script. The Registrar (Evaluation) may, with the prior permission of the Vice-Chancellor, as a subject – specialist from among the panel of examiners approved already or specially by the Syndicate, to evaluate the concerned script. The marks awarded in such a challenge – Valuation shall be overriding the previously-announced one whether or not advantageous to the candidate.

If the student's contention is proved to be correct beyond doubt as a result of the challenge – valuation, his fees shall be refunded to him and the concerned examiner/s be penalized as per the findings of the Registrar (Eva).

## 9.0 DECLARATION OF RESULTS :

- 9.1 Minimum for a pass in each paper shall be 40% (exam paper and internal assessment put together) and 50% in the aggregate of all the papers in each semester put together. There shall be no separate minima either for an examination paper or for internal assessment.
- 9.2 Successful candidates in each semester shall be classified as follows :
- (i) First Class : Those who obtain 60% and above in the aggregate marks
- (ii) Second Class : Those who obtain above 50% and below 60% in the aggregate marks.
- 9.3 a. Announcement of overall result, class and ranks for the course as a whole :
- (i) Ranks and Classes shall be declared for the successful candidates taking into account their total performance in all the semesters put together.
- (ii) First Class : All the successful candidates who secure 60% and above in their total performance shall be declared to have passed the Masters degree examination in First Class.
- (iii) Second class : All the successful candidates who secure above 50% and below 60% in their total performance shall be declared to have passed the Masters Degree examination in Second Class.



- b. Only those candidates who have passed the examination at the first appearance of each semester shall be eligible for the declaration of Roll of Honors (Ranks). Only the first five ranks shall be notified.
- c. For the declaration of overall class, a candidate should complete the course within the minimum stipulated duration of the respective course.


#### 10.0 PROVISIONS FOR REPEATERS :


- 10.1 A candidate is permitted to carry all the previous uncleared papers to the subsequent semester / semester.
- 10.2 Such of those candidates who have failed / remained absent / opt to improve in any one or more papers (theory / practical) shall appear / improve in such paper/s within the next two successive examinations of that semester.
- 10.3 Examination for odd / even semester shall be conducted respectively at the end of odd / even semester (odd with odd, even with even)
- 10.4 The candidate shall take the examination as per the syllabus and the scheme of examination in force during the subsequent appearances.
- 10.5 A candidate who seeks improvement has to surrender the marks already secured in the particular paper/s and Marks Cards of that semester.
- 10.6 Improvement is allowed only in theory and practical. However, the marks secured in the previous attempt shall be retained if the same is higher. There is no provision for improvement of internal assessment / Viva / Dissertation / Project / Field work marks.
- 10.7 A candidate is permitted to apply for improvement in any paper of the particular semester within 30 days from the date of announcement of result of that semester.
- 10.8 A repeater (including a candidate who seeks improvement) shall not be eligible for any Roll of Honors (Ranks).
- 10.9 A candidate should complete the Master's degree examination within 4 (four) academic years from the year of his / her admission.

#### 11.0 MISCELLANEOUS :

Any other issue not envisaged above, shall be resolved by the Vice-Chancellor from time to time in consultation with appropriate Bodies of the University, and such decision shall be final and binding on the candidate.

  
Registrar  
Tumkur University  
Tumkur

  
H.R. BHARDWAJ  
Chancellor

  
Vice Chancellor  
Tumkur University  
Tumkur